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 */

/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its [ @link ChannelPipeline].
 *
 * <h3>Sub-types</h3>
 * <p>
 * [ @link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
Alternatively, the following adapter classes are provided for your convenience:

* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events.</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>

For more information, please refer to the documentation of each subtype.

* The context object

A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext} object. A {@link ChannelHandler} is supposed to interact with the {@link ChannelPipeline} it belongs to via a context object. Using the context object, the {@link ChannelHandler} can pass events upstream or downstream, modify the pipeline dynamically, or store the information (using {@link AttributeKey}s) which is specific to the handler.

* State management

A {@link ChannelHandler} often needs to store some stateful information. The simplest and recommended approach is to use member variables:

```java
public interface Message {
    // your methods here
}
```

```java
public class DataServerHandler extends @link SimpleChannelInboundHandler<Message> {
    private boolean loggedIn;

    @Override
    public void channelRead0(@link ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }
}
```
Because the handler instance has a state variable which is dedicated to 
one connection, you have to create a new handler instance for each new 
channel to avoid a race condition where an unauthenticated client can get 
the confidential information:

```
// Create a new handler instance per channel.
// See [@link ChannelInitializer#initChannel(Channel)].
```

```java
public class DataServerInitializer extends [@link ChannelInitializer]
{
    @Override
    public void initChannel(@link Channel) channel
    {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}
```

<h4>Using [@link AttributeKey]s</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 
```java
public interface Message {
    // your methods here
}
```

```java
@Sharable
public class DataServerHandler extends [@link SimpleChannelInboundHandler]<Message>
{
    private final [@link AttributeKey]<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(@link ChannelHandlerContext) ctx, Message message)
    {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage)
        {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else (message instanceof GetDataMessage)
        {
            if (Boolean.TRUE.equals(attr.get()))
            {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
```
*     ...  
* }  
* </pre>  
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the  
* same handler instance to different pipelines:  
* <pre>  
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;{ @link Channel}&gt; {  
*  
*     private static final DataServerHandler <b>SHARED</b> = new DataServerHandler();  
*  
*     { @code @Override}  
*     public void initChannel({ @link Channel} channel) {  
*         channel.pipeline().addLast("handler", <b>SHARED</b>);  
*     }  
* }  
* </pre>  
* <h4>The { @code @Sharable} annotation</h4>  
* In the example above which used an { @link AttributeKey},  
* you might have noticed the { @code @Sharable} annotation.  
* <p>  
* 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.  
* <p>  
* If this annotation is not specified, you have to create a new handler  
* instance every time you add it to a pipeline because it has unshared state  
* such as member variables.  
* <p>  
* This annotation is provided for documentation purpose, just like  
* <p>  
* <h3>Additional resources worth reading</h3>  
* <p>  
* Please refer to the { @link ChannelHandler}, and  
* { @link ChannelPipeline} to find out more about inbound and outbound operations,  
* what fundamental differences they have, how they flow in a pipeline, and how to handle  
* the operation in your application.  
*/  

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* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/AbstractEventLoopGroup.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/ChannelMatchers.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/ConnectTimeoutException.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannelConfig.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/group/ChannelGroup.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/socket/oio/DefaultOioServerSocketChannelConfig.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/AddressedEnvelope.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySet.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
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* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-
  jar/io/netty/channel/SelectStrategyFactory.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-
  jar/io/netty/channel/ChannelOutboundInvoker.java
* /opt/cola/permits/1208967468_1632975993.74/0/netty-transport-4-1-68-final-sources-
  jar/io/netty/channel/WriteBufferWaterMark.java
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  jar/io/netty/channel/DefaultSelectStrategy.java
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  jar/io/netty/bootstrap/ServerBootstrapConfig.java
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  jar/io/netty/channel/SelectStrategy.java
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  jar/io/netty/channel/PreferHeapByteBufAllocator.java
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jar/io.netty/channel/ChannelInboundInvoker.java
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jar/io.netty/bootstrap/BootstrapConfig.java
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jar/io.netty/channel/group/VoidChannelGroupFuture.java
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  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
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  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
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jar/io/netty/channel/SucceededChannelFuture.java
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jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
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jar/io/netty/channel/socket/InternetProtocolFamily.java
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

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

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is
1.7 logstash-filter-date 3.1.14

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1.8 audience-annotations 0.5.0

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1.10 kerberos 1.16 2ubuntu0.1

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

```plaintext
include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c
```

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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_userid.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego Mech.c

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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:
        is_license = False
        if not is_license and indicates_license(line):
            is_license = True
        if text_seen:
            warn(fname, ln, 'License begins after first line of comment')
        if code_seen:
            warn(fname, ln, 'License after code')
        if nonlicense_seen:
            warn(fname, ln, 'License after non-license comments')
        if line != '' and line != '-':
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'\*\([^*]*[^*\*]*\[^*\*]*[^*]\*\*?[^*/]*', 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
        if 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)

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/* .*- mode: c; c-basic-offset: 4; indent-tabs-mode: nil .*- */
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1.11 jctools-core 1.2.1

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* /opt/cola/permits/1258291733_1643053051.52/0/jctools-core-1-2-1-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /opt/cola/permits/1258291733_1643053051.52/0/jctools-core-1-2-1-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
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* /opt/cola/permits/1258291733_1643053051.52/0/jctools-core-1-2-1-sources-jar/org/jctools/queues/MpscLinkedQueue.java
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* /opt/cola/permits/1258291733_1643053051.52/0/jctools-core-1-2-1-sources-
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* /opt/cola/permits/1143798222_1615797053.62/0/snmp4j-2-8-4-sources-1-jar/org/snmp4j/security/package.html
* /opt/cola/permits/1143798222_1615797053.62/0/snmp4j-2-8-4-sources-1-jar/org/snmp4j/smi/package.html
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1.20 python-idna 2.6 1
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1.22 utils 0.0.0-20201110183641-67b214c5f920

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1.26 openssl 1.0.2u-1~deb9u4

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1.32 cast 1.4.1

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1.35 jackson-databind 2.13.2
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1.36 libjson-perl 2.90-1

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=pod

=head1 NAME

JSON::PP - JSON::XS compatible pure-Perl module.
=head1 SYNOPSIS

use JSON::PP;

# exported functions, they croak on error
# and expect/generate UTF-8

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface

$coder = JSON::PP->new->ascii->pretty->allow_nonref;

$json_text = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

# Note that JSON version 2.0 and above will automatically use
# JSON::XS or JSON::PP, so you should be able to just:

use JSON;

=head1 VERSION

2.27200

L<JSON::XS> 2.27 (~2.30) compatible.

=head1 DESCRIPTION

This module is L<JSON::XS> compatible pure Perl module.
(Perl 5.8 or later is recommended)

JSON::XS is the fastest and most proper JSON module on CPAN.
It is written by Marc Lehmann in C, so must be compiled and
installed in the used environment.

JSON::PP is a pure-Perl module and has compatibility to JSON::XS.

=head2 FEATURES

=over
=item * correct unicode handling

This module knows how to handle Unicode (depending on Perl version).

See to L<JSON::XS/A FEW NOTES ON UNICODE AND PERL> and L<UNICODE HANDLING ON PERLS>.

=item * round-trip integrity

When you serialise a perl data structure using only data types supported by JSON and Perl, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There I<are> minor exceptions to this, read the MAPPING section below to learn about those.

=item * strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature). But when some options are set, loose checking features are available.

=back

=head1 FUNCTIONAL INTERFACE

Some documents are copied and modified from L<JSON::XS/FUNCTIONAL INTERFACE>.

=head2 encode_json

$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

$jsontext = JSON::PP->new->utf8->encode($perl_scalar)

=head2 decode_json

$perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.
This function call is functionally identical to:

```perl
$perl_scalar = JSON::PP->new->utf8->decode($json_text)
```

=head2 JSON::PP::is_bool

```perl
$is_boolean = JSON::PP::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::PP::true or JSON::PP::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.

=head2 JSON::PP::true

Returns JSON true value which is blessed object. It C<isa> JSON::PP::Boolean object.

=head2 JSON::PP::false

Returns JSON false value which is blessed object. It C<isa> JSON::PP::Boolean object.

=head2 JSON::PP::null

Returns C<undef>.

See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 HOW DO I DECODE A DATA FROM OUTER AND ENCODE TO OUTER

This section supposes that your perl version is 5.8 or later.

If you know a JSON text from an outer world - a network, a file content, and so on, is encoded in UTF-8, you should use C<decode_json> or C<JSON> module object with C<utf8> enable. And the decoded result will contain UNICODE characters.

# from network
my $json       = JSON::PP->new->utf8;
my $json_text  = CGI->new->param('json_data');
my $perl_scalar = $json->decode($json_text);

# from file content
local $/;
open(my $fh, '<', 'json.data');
$json_text  = <$fh>;
$perl_scalar = decode_json( $json_text );

If an outer data is not encoded in UTF-8, firstly you should C<decode> it.

use Encode;
local $/;
open( my $fh, '<', 'json.data' );
my $encoding = 'cp932';
my $unicode_json_text = decode( $encoding, <$fh> ); # UNICODE

# or you can write the below code.
#
# open( my $fh, "<:encoding($encoding)", 'json.data' );
# $unicode_json_text = <$fh>;

In this case, C<$unicode_json_text> is of course UNICODE string.
So you B<cannot> use C<decode_json> nor C<JSON> module object with C<utf8> enable.
Instead of them, you use C<JSON> module object with C<utf8> disable.

$perl_scalar = $json->utf8(0)->decode( $unicode_json_text );

Or C<encode 'utf8'> and C<decode_json>:

$perl_scalar = decode_json( encode( 'utf8', $unicode_json_text ) );
# this way is not efficient.

And now, you want to convert your C<$perl_scalar> into JSON data and send it to an outer world - a network or a file content, and so on.

Your data usually contains UNICODE strings and you want the converted data to be encoded in UTF-8, you should use C<encode_json> or C<JSON> module object with C<utf8> enable.

print encode_json( $perl_scalar ); # to a network? file? or display?
# or
print $json->utf8->encode( $perl_scalar );

If C<$perl_scalar> does not contain UNICODE but C<$encoding>-encoded strings for some reason, then its characters are regarded as B<latin1> for perl
(because it does not concern with your $encoding).
You B<cannot> use C<encode_json> nor C<JSON> module object with C<utf8> enable.
Instead of them, you use C<JSON> module object with C<utf8> disable.
Note that the resulted text is a UNICODE string but no problem to print it.

# $perl_scalar contains $encoding encoded string values
$unicode_json_text = $json->utf8(0)->encode( $perl_scalar );
# $unicode_json_text consists of characters less than 0x100
print $unicode_json_text;
Or C<decode $encoding> all string values and C<encode_json>:

```perl
$perl_scalar->{ foo } = decode( $encoding, $perl_scalar->{ foo } );
# ... do it to each string values, then encode_json
$json_text = encode_json( $perl_scalar );
```

This method is a proper way but probably not efficient.

See to L<Encode>, L<perluniintro>.

=head1 METHODS

Basically, check to L<JSON> or L<JSON::XS>.

=head2 new

```
$json = JSON::PP->new
```

Returns a new JSON::PP object that can be used to de/encode JSON strings.

All boolean flags described below are by default I<disabled>.

The mutators for flags all return the JSON object again and thus calls can be chained:

```
my $json = JSON::PP->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}
```

=head2 ascii

```
$json = $json->ascii([$enable])

$enabled = $json->get_ascii
```

If $enable is true (or missing), then the encode method will not generate characters outside the code range 0..127. Any Unicode characters outside that range will be escaped using either a single \uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627. (See to L<JSON::XS/OBJECT-ORIENTED INTERFACE>).

In Perl 5.005, there is no character having high value (more than 255). See to L<UNICODE HANDLING ON PERLS>.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags. This results in a faster and more compact format.

```
JSON::PP->new->ascii(1)->encode([chr 0x10401])
```
If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

See to L<UNICODE HANDLING ON PERLS>.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
$jsontext = encode "UTF-16BE", JSON::XS->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
```
$object = JSON::PP->new->decode (decode "UTF-32LE", $jsoncontext);

=head2 pretty

$json = $json->pretty([$enable])

This enables (or disables) all of the C<indent>, C<space_before> and
C<space_after> flags in one call to generate the most readable
(or most compact) form possible.

Equivalent to:

$json->indent->space_before->space_after

=head2 indent

$json = $json->indent([$enable])

$enabled = $json->get_indent

The default indent space length is three.
You can use C<indent_length> to change the length.

=head2 space_before

$json = $json->space_before([$enable])

$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space before the C<=> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before enabled, space_after and indent disabled:

{"key": "value"}

=head2 space_after

$json = $json->space_after([$enable])

$enabled = $json->get_space_after
If C<$enable> is true (or missing), then the C<encode> method will add an extra optional space after the C:<> separating keys from values in JSON objects and extra whitespace after the C:<,> separating key-value pairs and array members.

If C<$enable> is false, then the C<encode> method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{ "key": "value" }

=head2 relaxed

$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If C<$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4

=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

[  
  1, 
  2, <- this comma not normally allowed 
]

{  
  "k1": "v1", 
  "k2": "v2", <- this comma not normally allowed 
}
Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

```
[ 1, # this comment not allowed in JSON
   # neither this one...
]
```

=head2 canonical

$-json = $json->canonical([$enable])

$enabled = $json->get_canonical

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

If you want your own sorting routine, you can give a code reference or a subroutine name to C<sort_by>. See to C<JSON::PP OWN METHODS>.

=head2 allow_nonref

$-json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If C<$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.
If $enable is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

    JSON::PP->new->allow_nonref->encode ("Hello, World!")
    => "Hello, World!"

=head2 allow_unknown

$json = $json->allow_unknown ($enable)

$enabled = $json->get_allow_unknown

If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by C<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON. This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed($enable)

$enabled = $json->get_allow_blessed

If $enable is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference. Instead, the value of the B<convert_blessed> option will decide whether C<null> (C<convert_blessed> disabled or no C<TO_JSON> method found) or a representation of the object (C<convert_blessed> enabled and C<TO_JSON> method found) is being encoded. Has no effect on C<decode>.

If $enable is false (the default), then C<encode> will throw an exception when it encounters a blessed object.

=head2 convert_blessed

$json = $json->convert_blessed($enable)
$enabled = $json->get_convert_blessed

If C<$enabled> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no C<TO_JSON> method is found, the value of C<allow_blessed> will decide what to do.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the C<to_json> function or method.

This setting does not yet influence C<decode> in any way.

If C<$enabled> is false, then the C<allow_blessed> setting will decide what to do when a blessed object is found.

=head2 filter_json_object

$json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument passed to the coderef is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

my $js = JSON::PP->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');
filter_json_single_key_object

$json = $json->filter_json_single_key_object($key => $coderef)

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object>
one, decoding speed will not usually suffer as much. Therefore, single-key
objects make excellent targets to serialise Perl objects into, especially
as single-key JSON objects are as close to the type-tagged value concept
as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not
support this in any way, so you need to make sure your data never looks
like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or
C<$__dollars_are_rarely_used__$> or C<}ugly_brace_placement>, or even
things like C<__class_md5sum(classname)__>, to reduce the risk of clashing
with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >>
into the corresponding C<< $WIDGET{<id>} >> object:

# return whatever is in $WIDGET[5]:
JSON::PP
  ->new
  ->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_->[0] }
  })
  ->decode ('{"__widget__": 5')

# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;

  unless ($self->{id}) {
    $self->{id} = ..get..some..id..;
  }
  #
$WIDGET{$_->id} = $self;

{ __widget__ => $self->{id} }

=head2 shrink

$json = $json->shrink([$enable])

$enabled = $json->get_shrink

In JSON::XS, this flag resizes strings generated by either
C<encode> or C<decode> to their minimum size possible.
It will also try to downgrade any strings to octet-form if possible.

In JSON::PP, it is noop about resizing strings but tries
C<utf8::downgrade> to the returned string by C<encode>.
See to L<utf8>.

See to L<JSON::XS/OBJECT-ORIENTED INTERFACE>

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding
or decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.

Nesting level is defined by number of hash- or arrayrefs that the encoder
needs to traverse to reach a given point or the number of C<[]> or C</>
characters without their matching closing parenthesis crossed to reach a
given character in a string.

If no argument is given, the highest possible setting will be used, which
is rarely useful.

See L<JSON::XS/SSECURITY CONSIDERATIONS> for more info on why this is useful.

When a large value (100 or more) was set and it de/encodes a deep nested object/text,
it may raise a warning 'Deep recursion on subroutine' at the perl runtime phase.

=head2 max_size
Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is C<0>, meaning no limit. When C<decode> is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. C<undef>) become JSON C<null> values. References to the integers C<0> and C<1> are converted into C<true> and C<false>.

=head2 decode

$perl_scalar = $json->decode($json_text)

The opposite of C<encode>: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. C<true> becomes C<1> (C<JSON::true>), C<false> becomes C<0> (C<JSON::false>) and C<null> becomes C<undef>.

=head2 decode_prefix

($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the C<decode> method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

=begin quote

JSON->new->decode_prefix ("[1] the tail")

=end quote
INCREMENTAL PARSING

Most of this section are copied and modified from L<JSON::XS/INCREMENTAL PARSING>.

In some cases, there is the need for incremental parsing of JSON texts. This module does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using C<decode_prefix> to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

This module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect parenthesis mismatches. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. C<max_size>) to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

incr_parse

$$json->incr_parse( [$string] ) # void context

$obj_or_undef = $json->incr_parse( [$string] ) # scalar context

@obj_or_empty = $json->incr_parse( [$string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C<$string> is given, then this string is appended to the already existing JSON fragment stored in the C<$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of
using the method.

And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```perl
my @objs = JSON->new->incr_parse("[5][7][1,2]");
```

=head2 incr_text

$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

```perl
$json->incr_text =~ s/\s*,\s*///;
```

In Perl 5.005, C<lvalue> attribute is not available. You must write codes like the below:

```perl
$string = $json->incr_text;
$string =~ s/\s*\s*///;
$json->incr_text( $string );
```

=head2 incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.
=head2 incr_reset

$json->incr_reset

This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

See to L<JSON::XS/INCREMENTAL PARSING> for examples.

=head1 JSON::PP OWN METHODS

=head2 allow_singlequote

$json = $json->allow_singlequote([$enable])

If C<$enable> is true (or missing), then C<decode> will accept JSON strings quoted by single quotations that are invalid JSON format.

$json->allow_singlequote->decode({"foo":'bar'});
$json->allow_singlequote->decode({'foo':'bar'});
$json->allow_singlequote->decode({'foo':'bar'});

As same as the C<relaxed> option, this option may be used to parse application-specific files written by humans.

=head2 allow_barekey

$json = $json->allow_barekey([$enable])

If C<$enable> is true (or missing), then C<decode> will accept bare keys of JSON object that are invalid JSON format.

As same as the C<relaxed> option, this option may be used to parse application-specific files written by humans.

$json->allow_barekey->decode({foo:"bar"});

=head2 allow_bignum

$json = $json->allow_bignum([$enable])
If C<$enable> is true (or missing), then C<decode> will convert the big integer Perl cannot handle as integer into a L<Math::BigInt> object and convert a floating number (any) into a L<Math::BigFloat>.

On the contrary, C<encode> converts C<Math::BigInt> objects and C<Math::BigFloat> objects into JSON numbers with C<allow_blessed> enable.

$json->allow_nonref->allow_blessed->allow_bignum;
$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000000001

See to L<JSON::XS/MAPPING> about the normal conversion of JSON number.

=head2 loose

$json = $json->loose([$enable])

The unescaped \[\x00-\x1f\x22\x2f\x5c\] strings are invalid in JSON strings and the module doesn't allow to C<decode> to these (except for \x2f). If C<$enable> is true (or missing), then C<decode> will accept these unescaped strings.

$json->loose->decode(qq|["abc
def"])];

See L<JSON::XS/SSECURITY CONSIDERATIONS>.

=head2 escape_slash

$json = $json->escape_slash([$enable])

According to JSON Grammar, I<slash> (U+002F) is escaped. But default JSON::PP (as same as JSON::XS) encodes strings without escaping slash.

If C<$enable> is true (or missing), then C<encode> will escape slashes.

=head2 indent_length

$json = $json->indent_length($length)

JSON::XS indent space length is 3 and cannot be changed. JSON::PP set the indent space length with the given $length. The default is 3. The acceptable range is 0 to 15.

=head2 sort_by

$json = $json->sort_by($function_name)
$json = $json->sort_by($subroutine_ref)

If $function_name or $subroutine_ref are set, its sort routine are used in encoding JSON objects.

$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b })->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);

$js = $pc->sort_by('own_sort')->encode($obj);
# is($js, q|{"a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9}|);

sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }

As the sorting routine runs in the JSON::PP scope, the given subroutine name and the special variables C<$a>, C<$b> will begin 'JSON::PP:'.

If $integer is set, then the effect is same as C<canonical> on.

=head1 INTERNAL

For developers.

=over

=item PP_encode_box

Returns

{  
  depth    => $depth,
  indent_count => $indent_count,
}

=item PP_decode_box

Returns

{  
  text    => $text,
  at      => $at,
  ch      => $ch,
  len     => $len,
  depth   => $depth,
  encoding => $encoding,
  is_valid_utf8 => $is_valid_utf8,
};
This section is copied from JSON::XS and modified to C<JSON::PP>. JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

See to L<JSON::XS/MAPPING>.

=head2 JSON -> PERL

=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, C<JSON> will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).
Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, JSON only guarantees precision up to but not including the least significant bit.

When allow_bignum is enable, the big integers and the numeric can be optionally converted into Math::BigInt and Math::BigFloat objects.

=item true, false

These JSON atoms become JSON::PP::true and JSON::PP::false, respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the JSON::is_bool function.

print JSON::PP::true . "n";
=> true
print JSON::PP::true + 1;
=> 1

ok(JSON::true eq '1');
ok(JSON::true == 1);

JSON will install these missing overloading features to the backend modules.

=item null

A JSON null atom becomes undef in Perl.

JSON::PP::null returns undef.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering
in hash keys (or JSON objects), they will usually be encoded in a
pseudo-random order that can change between runs of the same program but
stays generally the same within a single run of a program. C<JSON> optionally sort the hash keys (determined by the I<canonical> flag), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

=item array references

Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

    to_json [0,JSON::PP::true]      # yields [false,true]

=item JSON::PP::true, JSON::PP::false, JSON::PP::null

These special values become JSON true and JSON false values, respectively. You can also use C<\1> and C<\0> directly if you want.

JSON::PP::null returns C<undef>.

=item blessed objects

Blessed objects are not directly representable in JSON. See the C<allow_blessed> and C<convert_blessed> methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

See to L<convert_blessed>.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

    # dump as number
encode_json [-3.0e17] # yields [-3e+17]
my $value = 5; encode_json [$value] # yields [5]

# used as string, so dump as string
print $value;
encode_json [$value] # yields ["5"]

# undef becomes null
encode_json [undef] # yields [null]

You can force the type to be a string by stringifying it:

my $x = 3.1; # some variable containing a number
"$x": # stringified
$x .= "; # another, more awkward way to stringify
print $x; # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

my $x = "3"; # some variable containing a string
$x += 0; # numify it, ensuring it will be dumped as a number
$x *= 1; # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

=item Big Number

When C<allow_bignum> is enable, C<encode> converts C<Math::BigInt> objects and C<Math::BigFloat> objects into JSON numbers.

=back

=head1 UNICODE HANDLING ON PERLS

If you do not know about Unicode on Perl well, please check L<JSON::XS/A FEW NOTES ON UNICODE AND PERL>.

=head2 Perl 5.8 and later
Perl can handle Unicode and the JSON::PP de/encode methods also work properly.

```
$json->allow_nonref->encode(chr hex 3042);
$json->allow_nonref->encode(chr hex 12345);
```

Returns C<"u3042"> and C<"\ud808\udf45"> respectively.

```
$json->allow_nonref->decode("\u3042");
$json->allow_nonref->decode("\ud808\udf45");
```

Returns UTF-8 encoded strings with UTF8 flag, regarded as C<U+3042> and C<U+12345>.

Note that the versions from Perl 5.8.0 to 5.8.2, Perl built-in C<join> was broken, so JSON::PP wraps the C<join> with a subroutine. Thus JSON::PP works slow in the versions.

=head2 Perl 5.6

Perl can handle Unicode and the JSON::PP de/encode methods also work.

=head2 Perl 5.005

Perl 5.005 is a byte semantics world -- all strings are sequences of bytes. That means the unicode handling is not available.

In encoding,

```
$json->allow_nonref->encode(chr hex 3042);  # hex 3042 is 12354.
$json->allow_nonref->encode(chr hex 12345); # hex 12345 is 74565.
```

Returns C<B> and C<E>, as C<chr> takes a value more than 255, it treats as C<$value % 256>, so the above codes are equivalent to :

```
$json->allow_nonref->encode(chr 66);
$json->allow_nonref->encode(chr 69);
```

In decoding,

```
$json->decode("\u00e3\u0081\u0082");
```

The returned is a byte sequence C<0xE3 0x81 0x82> for UTF-8 encoded japanese character C<HIRAGANA LETTER A>. And if it is represented in Unicode code point, C<U+3042>.

Next,

```
$json->decode("\u3042");
```
We ordinary expect the returned value is a Unicode character \texttt{C\textasciitilde{U+3042}}. But here is 5.005 world. This is \texttt{C\textasciitilde{0xE3 0x81 0x82}}.

\begin{verbatim}
$json\rightarrow\text{decode("\ud808\udf45")};
\end{verbatim}

This is not a character \texttt{C\textasciitilde{U+12345}} but bytes - \texttt{C\textasciitilde{0xf0 0x92 0x8d 0x85}}.

=head1 TODO
=over
=item speed
=item memory saving
=back

=head1 SEE ALSO

Most of the document are copied and modified from JSON::XS doc.

L\:<JSON::XS>\n
RFC4627 (L\:<http://www.ietf.org/rfc/rfc4627.txt>)

=head1 AUTHOR

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=head1 COPYRIGHT AND LICENSE

Copyright 2007-2012 by Makamaka Hannyaharamitu

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1143253037_1615553069.82/0/libjson-perl-2-90-orig-1-tar-gz/JSON-2.90/lib/JSON/backportPP.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
JSON - JSON (JavaScript Object Notation) encoder/decoder

=head1 SYNOPSIS

use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)

$utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
$perl_hash_or_arrayref  = decode_json $utf8_encoded_json_text;

# OO-interface

$json = JSON->new->allow_nonref;

$json_text   = $json->encode( $perl_scalar );
$perl_scalar = $json->decode( $json_text );

$pretty_printed = $json->pretty->encode( $perl_scalar ); # pretty-printing

# If you want to use PP only support features, call with '-support_by_pp'
# When XS unsupported feature is enable, using PP (de|en)code instead of XS ones.

use JSON -support_by_pp;

# option-acceptable interfaces (expect/generate UNICODE by default)

$json_text   = to_json( $perl_scalar, { ascii => 1, pretty => 1 } );
$perl_scalar = from_json( $json_text, { utf8 => 1 } );

# Between (en|de)code_json and (to|from)_json, if you want to write
# a code which communicates to an outer world (encoded in UTF-8),
# recommend to use (en|de)code_json.

=head1 VERSION

2.90

This version is compatible with JSON::XS B<2.34> and later.
(Not yet compatible to JSON::XS B<3.0x>.)

=head1 NOTE

JSON::PP was earlier included in the C<JSON> distribution, but
has since Perl 5.14 been a core module. For this reason,
L<JSON::PP> was removed from the JSON distribution and can now
be found also in the Perl5 repository at

=item * L<http://perl5.git.perl.org/perl.git>

=back

(The newest JSON::PP version still exists in CPAN.)

Instead, the C<JSON> distribution will include JSON::backportPP for backwards computability. JSON.pm should thus work as it did before.

=head1 DESCRIPTION

*********************************************************************** CAUTION *********************************************************
* * *
* INCOMPATIBLE CHANGE (JSON::XS version 2.90) *
* * *
* JSON.pm had patched JSON::XS::Boolean and JSON::PP::Boolean internally *
* on loading time for making these modules inherit JSON::Boolean. *
* But since JSON::XS v3.0 it use Types::Serialiser as boolean class. *
* Then now JSON.pm breaks boolean classe overload features and *
* -support_by_pp if JSON::XS v3.0 or later is installed. *
* * *
* JSON::true and JSON::false returned JSON::Boolean objects. *
* For workaround, they return JSON::PP::Boolean objects in this version. *
* * *
* isa_ok(JSON::true, 'JSON::PP::Boolean'); *
* * *
* And it discards a feature: *
* * *
* ok(JSON::true eq 'true'); *
* * *
* In other word, JSON::PP::Boolean overload numeric only. *
* * *
* ok( JSON::true == 1 ); *
* * *
*********************************************************************** CAUTION *********************************************************
* This is 'JSON module version 2' and there are many differences *
* to version 1.xx *
* Please check your applications using old version. *
* See to 'INCOMPATIBLE CHANGES TO OLD VERSION' *
***********************************************************************
JSON (JavaScript Object Notation) is a simple data format. See to L<http://www.json.org/> and C<RFC4627>(L<http://www.ietf.org/rfc/rfc4627.txt>).

This module converts Perl data structures to JSON and vice versa using either L<JSON::XS> or L<JSON::PP>.

JSON::XS is the fastest and most proper JSON module on CPAN which must be compiled and installed in your environment.

JSON::PP is a pure-Perl module which is bundled in this distribution and has a strong compatibility to JSON::XS.

This module try to use JSON::XS by default and fail to it, use JSON::PP instead. So its features completely depend on JSON::XS or JSON::PP.

See to L<BACKEND MODULE DECISION>.

To distinguish the module name 'JSON' and the format type JSON, the former is quoted by CE<lt>E<gt> (its results vary with your using media), and the latter is left just as it is.

Module name : C<JSON>

Format type : JSON

=head2 FEATURES

=over

=item * correct unicode handling

This module (i.e. backend modules) knows how to handle Unicode, documents how and when it does so, and even documents what "correct" means.

Even though there are limitations, this feature is available since Perl version 5.6.

JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or later), so in older versions C<JSON> should call JSON::PP as the backend which can be used since Perl 5.005.

With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of a Perl side problem, JSON::PP works slower in the versions. And in 5.005, the Unicode handling is not available. See to L<JSON::PP/UNICODE HANDLING ON PERLS> for more information.

See also to L<JSON::XS/A FEW NOTES ON UNICODE AND PERL> and L<JSON::XS/ENCODING/ CODESET_FLAG_NOTES>.

=item * round-trip integrity
When you serialise a perl data structure using only data types supported by JSON and Perl, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There are minor exceptions to this, read the L</MAPPING> section below to learn about those.

=item * strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by default, and only JSON is accepted as input by default (the latter is a security feature).

See to L<JSON::XS/FEATURES> and L<JSON::PP/FEATURES>.

=item * fast

This module returns a JSON::XS object itself if available. Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favorably in terms of speed, too.

If not available, C<JSON> returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.

=item * simple to use

This module has both a simple functional interface as well as an object oriented interface interface.

=item * reasonably versatile output formats

You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in whatever way you like.

=back

=head1 FUNCTIONAL INTERFACE

Some documents are copied and modified from L<JSON::XS/FEATUREAL INTERFACE>. C<to_json> and C<from_json> are additional functions.

=head2 encode_json

$json_text = encode_json $perl_scalar
Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

```perl
$json_text = JSON->new->utf8->encode($perl_scalar)
```

=head2 decode_json

$perl_scalar = decode_json $json_text

The opposite of C<encode_json>: expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.

This function call is functionally identical to:

```perl
$perl_scalar = JSON->new->utf8->decode($json_text)
```

=head2 to_json

$json_text = to_json($perl_scalar)

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

```perl
$json_text = JSON->new->encode($perl_scalar)
```

Takes a hash reference as the second.

```perl
$json_text = to_json($perl_scalar, $flag_hashref)
```

So,

```perl
$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
```

equivalent to:

```perl
$json_text = JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

If you want to write a modern perl code which communicates to outer world, you should use C<encode_json> (supposed that JSON data are encoded in UTF-8).

=head2 from_json

$perl_scalar = from_json($json_text)
The opposite of C<to_json>: expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

```perl
$perl_scalar = JSON->decode($json_text)
```

Takes a hash reference as the second.

```perl
$perl_scalar = from_json($json_text, $flag_hashref)
```

So,

```perl
$perl_scalar = from_json($json_text, {utf8 => 1})
```

equivalent to:

```perl
$perl_scalar = JSON->new->utf8(1)->decode($json_text)
```

If you want to write a modern perl code which communicates to outer world, you should use C<decode_json> (supposed that JSON data are encoded in UTF-8).

=head2 JSON::is_bool

```perl
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like C<1> and C<0> respectively and are also used to represent JSON C<true> and C<false> in Perl strings.

=head2 JSON::true

Returns JSON true value which is blessed object.
It C<isa> JSON::Boolean object.

=head2 JSON::false

Returns JSON false value which is blessed object.
It C<isa> JSON::Boolean object.

=head2 JSON::null

Returns C<undef>.

See L<MAPPING>, below, for more information on how JSON values are mapped to Perl.

=head1 HOW DO I DECODE A DATA FROM OUTER AND ENCODE TO OUTER
This section supposes that your perl version is 5.8 or later.

If you know a JSON text from an outer world - a network, a file content, and so on, is encoded in UTF-8, you should use C<decode_json> or C<JSON> module object with C<utf8> enable. And the decoded result will contain UNICODE characters.

```perl
# from network
my $json = JSON->new->utf8;
my $json_text = CGI->new->param( 'json_data' );
my $perl_scalar = $json->decode( $json_text );

# from file content
local $/;
open( my $fh, '<', 'json.data' );
$json_text = <$fh>;
$perl_scalar = decode_json( $json_text );
```

If an outer data is not encoded in UTF-8, firstly you should C<decode> it.

```perl
use Encode;
local $/;
open( my $fh, '<', 'json.data' );
my $encoding = 'cp932';
$json_text = decode( $encoding, <$fh> ); # UNICODE

# or you can write the below code.
#
# # open( my $fh, "<:encoding($encoding)", 'json.data' );
# $unicode_json_text = <$fh>;
```

In this case, C<$unicode_json_text> is of course UNICODE string. So you B<cannot> use C<decode_json> nor C<JSON> module object with C<utf8> enable. Instead of them, you use C<JSON> module object with C<utf8> disable or C<from_json>.

```perl
$perl_scalar = $json->utf8(0)->decode( $unicode_json_text );
# or
$perl_scalar = from_json( $unicode_json_text );
```

Or C<encode 'utf8'> and C<decode_json>:

```perl
$perl_scalar = decode_json( encode( 'utf8', $unicode_json_text ) );
# this way is not efficient.
```

And now, you want to convert your C<$perl_scalar> into JSON data and send it to an outer world - a network or a file content, and so on.

Your data usually contains UNICODE strings and you want the converted data to be encoded
in UTF-8, you should use C<encode_json> or C<JSON> module object with C<utf8> enable.

print encode_json( $perl_scalar ); # to a network? file? or display?
# or
print $json->utf8->encode( $perl_scalar );

If C<$perl_scalar> does not contain UNICODE but C<$encoding>-encoded strings for some reason, then its characters are regarded as B<latin1> for perl (because it does not concern with your $encoding). You B<cannot> use C<encode_json> nor C<JSON> module object with C<utf8> enable. Instead of them, you use C<JSON> module object with C<utf8> disable or C<to_json>. Note that the resulted text is a UNICODE string but no problem to print it.

# $perl_scalar contains $encoding encoded string values
$unicode_json_text = $json->utf8(0)->encode( $perl_scalar );
# or
$unicode_json_text = to_json( $perl_scalar );
# $unicode_json_text consists of characters less than 0x100
print $unicode_json_text;

Or C<decode $encoding> all string values and C<encode_json>: 

$perl_scalar->{ foo } = decode( $encoding, $perl_scalar->{ foo } );
# ... do it to each string values, then encode_json
$json_text = encode_json( $perl_scalar );

This method is a proper way but probably not efficient.

See to L<Encode>, L<perluniintro>.

=head1 COMMON OBJECT-ORIENTED INTERFACE

=head2 new

$json = JSON->new

Returns a new C<JSON> object inherited from either JSON::XS or JSON::PP that can be used to de/encode JSON strings.

All boolean flags described below are by default I<disabled>.

The mutators for flags all return the JSON object again and thus calls can be chained:

my $json = JSON->new->utf8->space_after->encode({a => [1,2]})
=> {"a": [1, 2]}
=head2 ascii

$json = $json->ascii([$enable])

$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not generate characters outside
the code range 0..127. Any Unicode characters outside that range will be escaped using either
a single \uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627.

If $enable is false, then the encode method will not escape Unicode characters unless
required by the JSON syntax or other flags. This results in a faster and more compact format.

This feature depends on the used Perl version and environment.

See to L<JSON::PP/UNICODE HANDLING ON PERLS> if the backend is PP.

=head2 latin1

$json = $json->latin1([$enable])

$enabled = $json->get_latin1

If $enable is true (or missing), then the encode method will encode the resulting JSON
text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters
unless required by the JSON syntax or other flags.

=head2 utf8

$json = $json->utf8([$enable])

$enabled = $json->get_utf8

If $enable is true (or missing), then the encode method will encode the JSON result
into UTF-8, as required by many protocols, while the decode method expects to be handled
an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any
characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32
encoding families, as described in RFC4627.
If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

```perl
use Encode;
$jsontext = encode "UTF-16BE", JSON::XS->new->encode ($object);
```

Example, decode UTF-32LE-encoded JSON:

```perl
use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsontext);
```

See to L<JSON::PP/UNICODE HANDLING ON PERLS> if the backend is PP.

=head2 pretty

```perl
$json = $json->pretty([$enable])
```

This enables (or disables) all of the C<indent>, C<space_before> and C<space_after> (and in the future possibly more) flags in one call to generate the most readable (or most compact) form possible.

Equivalent to:

```perl
$json->indent->space_before->space_after
```

The indent space length is three and JSON::XS cannot change the indent space length.

=head2 indent

```perl
$json = $json->indent([$enable])
```

```perl
$enabled = $json->get_indent
```

If C<$enable> is true (or missing), then the C<encode> method will use a multiline format as output, putting every array member or object/hash key-value pair into its own line, identifying them properly.

If C<$enable> is false, no newlines or indenting will be produced, and the resulting JSON text is guaranteed not to contain any C<newlines>.

This setting has no effect when decoding JSON texts.
The indent space length is three.
With JSON::PP, you can also access C<indent_length> to change indent space length.

=head2 space_before

$json = $json->space_before([$enable])
$enabled = $json->get_space_before

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space before the C<:> separating keys from values in JSON objects.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before enabled, space_after and indent disabled:

    { "key" : "value" }

=head2 space_after

$json = $json->space_after([$enable])
$enabled = $json->get_space_after

If C<$enable> is true (or missing), then the C<encode> method will add an extra
optional space after the C<:> separating keys from values in JSON objects
and extra whitespace after the C<,> separating key-value pairs and array
members.

If C<$enable> is false, then the C<encode> method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

    { "key" : "value" }

=head2 relaxed

$json = $json->relaxed([$enable])
$enabled = $json->get_relaxed

If C<$enable> is true (or missing), then C<decode> will accept some extensions to normal JSON syntax (see below). C<encode> will not be affected in anyway. I<Be aware that this option makes you accept invalid JSON texts as if they were valid!>. I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If C<$enable> is false (the default), then C<decode> will only accept valid JSON texts.

Currently accepted extensions are:

=over 4
=item * list items can have an end-comma

JSON I<separates> array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

[ 1, 2, <- this comma not normally allowed ]
{}
"k1": "v1", "k2": "v2", <- this comma not normally allowed
}

=item * shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

[ 1, # this comment not allowed in JSON
   # neither this one... ]

=back

=head2 canonical
Open Source Used In cnBR Operations Hub 22.2  532

$json = $json->canonical([$enable])

$enabled = $json->get_canonical

If C<$enable> is true (or missing), then the C<encode> method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If C<$enable> is false, then the C<encode> method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

=head2 allow_nonref

$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If C<$enable> is true (or missing), then the C<encode> method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, C<decode> will accept those JSON values instead of croaking.

If C<$enable> is false, then the C<encode> method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, C<decode> will croak if given something that is not a JSON object or array.

JSON->new->allow_nonref->encode ("Hello, World!")
=> "Hello, World!"

=head2 allow_unknown

$json = $json->allow_unknown ([{$enable}])

$enabled = $json->get_allow_unknown

If Cenable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled
If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

=head2 allow_blessed

$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed

If C<$enable> is true (or missing), then the C<encode> method will not barf when it encounters a blessed reference. Instead, the value of the B<convert_blessed> option will decide whether C<null> (C<convert_blessed> disabled or no C<TO_JSON> method found) or a representation of the object (C<convert_blessed> enabled and C<TO_JSON> method found) is being encoded. Has no effect on C<decode>.

If C<$enable> is false (the default), then C<encode> will throw an exception when it encounters a blessed object.

=head2 convert_blessed

$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed

If C<$enable> is true (or missing), then C<encode>, upon encountering a blessed object, will check for the availability of the C<TO_JSON> method on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no C<TO_JSON> method is found, the value of C<allow_blessed> will decide what to do.

The C<TO_JSON> method may safely call die if it wants. If C<TO_JSON> returns other blessed objects, those will be handled in the same way. C<TO_JSON> must take care of not causing an endless recursion cycle (== crash) in this case. The name of C<TO_JSON> was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the C<to_json> function or method.

This setting does not yet influence C<decode> in any way.
If C<$enable> is false, then the C<allow_blessed> setting will decide what to do when a blessed object is found.

=over

=item convert_blessed_universally mode

If use C<JSON> with C<convert_blessed_universally>, the C<UNIVERSAL::TO_JSON> subroutine is defined as the below code:

*UNIVERSAL::TO_JSON = sub {
    my $b_obj = B::svref_2object( $_[0] );
    return $b_obj->isa('B::HV') ? { %{ $_[0] } } 
    : $b_obj->isa('B::AV') ? @ { $_[0] } 
    : undef;
}

This will cause that C<encode> method converts simple blessed objects into JSON objects as non-blessed object.

    JSON -convert_blessed_universally;
    $json->allow_blessed->convert_blessed->encode( $blessed_object )

This feature is experimental and may be removed in the future.

=back

=head2 filter_json_object

    $json = $json->filter_json_object([$coderef])

When C<$coderef> is specified, it will be called from C<decode> each time it decodes a JSON object. The only argument passed to the coderef is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: I<not> C<undef>, which is a valid scalar), the original deserialised hash will be inserted. This setting can slow down decoding considerably.

When C<$coderef> is omitted or undefined, any existing callback will be removed and C<decode> will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:
my $js = JSON->new->filter_json_object (sub { 5 });
# returns [5]
$js->decode ('[{}]'); # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}\');

=head2 filter_json_single_key_object

$js = $js->filter_json_single_key_object($key => $coderef)

Works remotely similar to C<filter_json_object>, but is only called for
JSON objects having a single key named C<$key>.

This C<$coderef> is called before the one specified via
C<filter_json_object>, if any. It gets passed the single value in the JSON
object. If it returns a single value, it will be inserted into the data
structure. If it returns nothing (not even C<undef> but the empty list),
the callback from C<filter_json_object> will be called next, as if no
single-key callback were specified.

If C<$coderef> is omitted or undefined, the corresponding callback will be
disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the C<filter_json_object>
one, decoding speed will not usually suffer as much. Therefore, single-key
objects make excellent targets to serialise Perl objects into, especially
as single-key JSON objects are as close to the type-tagged value concept
as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not
support this in any way, so you need to make sure your data never looks
like a serialised Perl hash.

Typical names for the single object key are C<__class_whatever__>, or
C<__dollars_are_rarely_used__$> or C<ugly_brace_placement>, or even
things like C<__class_md5sum(classname)__>, to reduce the risk of clashing
with real hashes.

Example, decode JSON objects of the form C<< { "__widget__" => <id> } >>
into the corresponding C<< $WIDGET{<id>} >> object:

# return whatever is in $WIDGET[5]:
JSON
  ->new
  ->filter_json_single_key_object (__widget__ => sub {
      $WIDGET{ $_[0] }
  })
  ->decode ('{"__widget__": 5}');
# this can be used with a TO_JSON method in some "widget" class
# for serialisation to json:
sub WidgetBase::TO_JSON {
  my ($self) = @_;

  unless ($self->{id}) {
    $self->{id} = ..get..some..id.;
    $WIDGET{$self->{id}} = $self;
  }

  { __widget__ => $self->{id} }
}

=head2 shrink

$json = $json->shrink([$enable])

$enabled = $json->get_shrink

With JSON::XS, this flag resizes strings generated by either C<encode> or C<decode> to their minimum size possible. This can save memory when your JSON texts are either very very long or you have many short strings. It will also try to downgrade any strings to octet-form if possible: perl stores strings internally either in an encoding called UTF-X or in octet-form. The latter cannot store everything but uses less space in general (and some buggy Perl or C code might even rely on that internal representation being used).

With JSON::PP, it is noop about resizing strings but tries C<utf8::downgrade> to the returned string by C<encode>. See to L<utf8>.

See to L<JSON::XS/OBJECT-ORIENTED INTERFACE> and L<JSON::PP/METHODS>.

=head2 max_depth

$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default C<512>) accepted while encoding or decoding. If a higher nesting level is detected in JSON text or a Perl data structure, then the encoder and decoder will stop and croak at that point.

Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of C<{}> or C<[]>
characters without their matching closing parenthesis crossed to reach a
given character in a string.

If no argument is given, the highest possible setting will be used, which
is rarely useful.

Note that nesting is implemented by recursion in C. The default value has
been chosen to be as large as typical operating systems allow without
crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set and
it de/encodes a deep nested object/text, it may raise a warning
'Deep recursion on subroutine' at the perl runtime phase.

See L<JSON::XS/SECURITY CONSIDERATIONS> for more info on why this is useful.

=head2 max_size

$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is
being attempted. The default is C<0>, meaning no limit. When C<decode>
is called on a string that is longer then this many bytes, it will not
attempt to decode the string but throw an exception. This setting has no
effect on C<encode> (yet).

If no argument is given, the limit check will be deactivated (same as when
C<0> is specified).

See L<JSON::XS/SECURITY CONSIDERATIONS>, below, for more info on why this is useful.

=head2 encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl data structure (a simple scalar or a reference
to a hash or array) to its JSON representation. Simple scalars will be
converted into JSON string or number sequences, while references to arrays
become JSON arrays and references to hashes become JSON objects. Undefined
Perl values (e.g. C<undef>) become JSON C<null> values.
References to the integers C<0> and C<1> are converted into C<true> and C<false>.

=head2 decode

$perl_scalar = $json->decode($json_text)
The opposite of `encode`: expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. `true` becomes `1` (`JSON::true`), `false` becomes `0` (`JSON::false`) and `null` becomes `undef`.

=head2 decode_prefix

\[
$perl_scalar, $characters = $json->decode_prefix($json_text)
\]

This works like the `decode` method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

\[
JSON->new->decode_prefix ('"[1] the tail"
\]

=> ([], 3)

See to L<JSON::XS/OBJECT-ORIENTED INTERFACE>

=head2 property

\[
$boolean = $json->property($property_name)
\]

Returns a boolean value about above some properties.

The available properties are `ascii`, `latin1`, `utf8`, `indent`, `space_before`, `space_after`, `relaxed`, `canonical`, `allow_nonref`, `allow_unknown`, `allow_blessed`, `convert_blessed`, `shrink`, `max_depth` and `max_size`.

\[
$boolean = $json->property('utf8');
\]

=> 0

\[
$json->utf8;
\]

\[
$boolean = $json->property('utf8');
\]

=> 1

Sets the property with a given boolean value.

\[
$json = $json->property($property_name => $boolean);
\]

With no argument, it returns all the above properties as a hash reference.

\[
$flag_hashref = $json->property();
\]

=head1 INCREMENTAL PARSING
Most of this section are copied and modified from L<JSON::XS/INCREMENTAL PARSING>.

In some cases, there is the need for incremental parsing of JSON texts. This module does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using C<decode_prefix> to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

The backend module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect parenthesis mismatches. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. C<max_size>) to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

=head2 incr_parse

$json->incr_parse( [string] ) # void context

$obj_or_undef = $json->incr_parse( [string] ) # scalar context

$obj_or_empty = $json->incr_parse( [string] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If C$string> is given, then this string is appended to the already existing JSON fragment stored in the C$json> object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly I<one> JSON object. If that is successful, it will return this object, otherwise it will return C<undef>. If there is a parse error, this method will croak just as C<decode> would do (one can then use C<incr_skip> to skip the erroneous part). This is the most common way of using the method.

And finally, in list context, it will try to extract as many objects
from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

    my @objs = JSON->new->incr_parse("[5][7][1,2]");

=head2 incr_text

$lvalue_string = $json->incr_text

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This I<only> works when a preceding call to C<incr_parse> in I<scalar context> successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it I<will> fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

    $json->incr_text =~ s/\s*,\s*///;

In Perl 5.005, C<lvalue> attribute is not available. You must write codes like the below:

    $string = $json->incr_text;
    $string =~ s/\s*,\s*///;
    $json->incr_text( $string );

=head2 incr_skip

$json->incr_skip

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after C<incr_parse> died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

=head2 incr_reset

$json->incr_reset
This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

See to L<JSON::XS/INCREMENTAL PARSING> for examples.

=head1 JSON::PP SUPPORT METHODS

The below methods are JSON::PP own methods, so when C<JSON> works with JSON::PP (i.e. the created object is a JSON::PP object), available. See to L<JSON::PP/JSON::PP OWN METHODS> in detail.

If you use C<JSON> with additional C<-support_by_pp>, some methods are available even with JSON::XS. See to L<USE PP FEATURES EVEN THOUGH XS BACKEND>.

BEING { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

# functional interfaces too.
print to_json(['/'], {escape_slash => 1});
print from_json(['foo'], {utf8 => 1});

If you do not want to all functions but C<-support_by_pp>, use C<-no_export>.

use JSON -support_by_pp, -no_export;
# functional interfaces are not exported.

=head2 allow_singlequote

$json = $json->allow_singlequote([$enable])

If C<$enable> is true (or missing), then C<decode> will accept any JSON strings quoted by single quotations that are invalid JSON format.

$json->allow_singlequote->decode({'foo':"bar"});
$json->allow_singlequote->decode({'foo':"bar"});
$json->allow_singlequote->decode({'foo':bar});
As same as the C<relaxed> option, this option may be used to parse application-specific files written by humans.

=head2 allow_barekey

$json = $json->allow_barekey([$enable])

If C<$enable> is true (or missing), then C<decode> will accept bare keys of JSON object that are invalid JSON format.

As same as the C<relaxed> option, this option may be used to parse application-specific files written by humans.

$json->allow_barekey->decode("{foo:"bar"}");

=head2 allow_bignum

$json = $json->allow_bignum([$enable])

If C<$enable> is true (or missing), then C<decode> will convert the big integer Perl cannot handle as integer into a L<Math::BigInt> object and convert a floating number (any) into a L<Math::BigFloat>.

On the contrary, C<encode> converts C<Math::BigInt> objects and C<Math::BigFloat> objects into JSON numbers with C<allow_blessed> enable.

$json->allow_nonref->allow_blessed->allow_bignum;
$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000000001

See to L<MAPPING> about the conversion of JSON number.

=head2 loose

$json = $json->loose([$enable])

The unescaped [\x00-\x1f\x22\x2f\x5c] strings are invalid in JSON strings and the module doesn't allow to C<decode> to these (except for \x2f).
If C<$enable> is true (or missing), then C<decode> will accept these unescaped strings.

$json->loose->decode(qq|"abc
def"|);

See to L<JSON::PP/JSON::PP OWN METHODS>.
$json = $json->escape_slash([$enable])

According to JSON Grammar, `\`U+002F\` (U+002F) is escaped. But by default JSON backend modules encode strings without escaping slash.

If `\$enable\` is true (or missing), then `\encode\` will escape slashes.

$json = $json->indent_length($length)

With JSON::XS, the indent space length is 3 and cannot be changed. With JSON::PP, it sets the indent space length with the given $length. The default is 3. The acceptable range is 0 to 15.

$json = $json->sort_by($function_name)
$js = $pc->sort_by('own_sort')->encode($obj);

If $function_name or $subroutine_ref are set, its sort routine are used.

As the sorting routine runs in the JSON::PP scope, the given subroutine name and the special variables $a, $b will begin with 'JSON::PP::'.

If $integer is set, then the effect is same as C<\canonical\> on.

See to L<JSON::PP/JSON::PP OWN METHODS>.

This section is copied from JSON::XS and modified to C<JSON>. JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

See to L<JSON::XS/MAPPING>.
A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

A JSON array becomes a reference to an array in Perl.

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, C<JSON> will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, C<JSON> only guarantees precision up to but not including the least significant bit.

If the backend is JSON::PP and C<allow_bignum> is enable, the big integers and the numeric can be optionally converted into L<Math::BigInt> and L<Math::BigFloat> objects.

=over 4
=item object

A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserve object key ordering itself).

=item array

A JSON array becomes a reference to an array in Perl.

=item string

A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string, so no manual decoding is necessary.

=item number

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, C<JSON> will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, C<JSON> only guarantees precision up to but not including the least significant bit.

If the backend is JSON::PP and C<allow_bignum> is enable, the big integers and the numeric can be optionally converted into L<Math::BigInt> and L<Math::BigFloat> objects.

=item true, false
These JSON atoms become C<JSON::true> and C<JSON::false>, respectively. They are overloaded to act almost exactly like the numbers C<1> and C<0>. You can check whether a scalar is a JSON boolean by using the C<JSON::is_bool> function.

```perl
print JSON::true + 1;
=> 1

ok(JSON::true eq '1');
ok(JSON::true == 1);
```

C<JSON> will install these missing overloading features to the backend modules.

=item null

A JSON null atom becomes C<undef> in Perl.

C<JSON::null> returns C<undef>.

=back

=head2 PERL -> JSON

The mapping from Perl to JSON is slightly more difficult, as Perl is a truly typeless language, so we can only guess which JSON type is meant by a Perl value.

=over 4

=item hash references

Perl hash references become JSON objects. As there is no inherent ordering in hash keys (or JSON objects), they will usually be encoded in a pseudo-random order that can change between runs of the same program but stays generally the same within a single run of a program. C<JSON> optionally sort the hash keys (determined by the I<canonical> flag), so the same data structure will serialise to the same JSON text (given same settings and version of JSON::XS), but this incurs a runtime overhead and is only rarely useful, e.g. when you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to JSON::PP using C<tie> mechanism.

=item array references
Perl array references become JSON arrays.

=item other references

Other unblessed references are generally not allowed and will cause an exception to be thrown, except for references to the integers C<0> and C<1>, which get turned into C<false> and C<true> atoms in JSON. You can also use C<JSON::false> and C<JSON::true> to improve readability.

    to_json [0,JSON::true]      # yields [false,true]

=item JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values, respectively. You can also use C<!1> and C<!0> directly if you want.

    JSON::null returns C<undef>.

=item blessed objects

Blessed objects are not directly representable in JSON. See the C<allow_blessed> and C<convert_blessed> methods on various options on how to deal with this: basically, you can choose between throwing an exception, encoding the reference as if it weren't blessed, or provide your own serialiser method.

With C<convert_blessed_universally> mode, C<encode> converts blessed hash references or blessed array references (contains other blessed references) into JSON members and arrays.

    use JSON -convert_blessed_universally;
    JSON->new->allow_blessed->convert_blessed->encode( $blessed_object );

See to L<convert_blessed>.

=item simple scalars

Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON C<null> values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

    # dump as number
    encode_json [-3.0e17] # yields [-3e+17]
    my $value = 5; encode_json [$value] # yields [5]
# used as string, so dump as string
print $value;
encode_json [$value] # yields ["5"]

# undef becomes null
encode_json [undef] # yields [null]

You can force the type to be a string by stringifying it:

my $x = 3.1; # some variable containing a number
"$x";       # stringified
$x .= "";   # another, more awkward way to stringify
print $x;   # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

my $x = "3"; # some variable containing a string
$x += 0;     # numify it, ensuring it will be dumped as a number
$x *= 1;     # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.

=item Big Number

If the backend is JSON::PP and C<allow_bignum> is enable, C<encode> converts C<Math::BigInt> objects and C<Math::BigFloat> objects into JSON numbers.

=back

=head1 JSON and ECMAscript

See to L<JSON::XS/JSON and ECMAscript>.

=head1 JSON and YAML

JSON is not a subset of YAML.
See to L<JSON::XS/JSON and YAML>.
When you use C<JSON>, C<JSON> tries to C<use> JSON::XS. If this call failed, it will C<uses> JSON::PP. The required JSON::XS version is I<2.2> or later.

The C<JSON> constructor method returns an object inherited from the backend module, and JSON::XS object is a blessed scalar reference while JSON::PP is a blessed hash reference.

So, your program should not depend on the backend module, especially returned objects should not be modified.

my $json = JSON->new; # XS or PP?
$json->{stash} = 'this is xs object'; # this code may raise an error!

To check the backend module, there are some methods - C<backend>, C<is_pp> and C<is_xs>.

JSON->backend; # 'JSON::XS' or 'JSON::PP'
JSON->backend->is_pp: # 0 or 1
JSON->backend->is-xs: # 1 or 0

If you set an environment variable C<PERL_JSON_BACKEND>, the calling action will be changed.

=over

=item PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'
Always use JSON::PP

=item PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'
(The default) Use compiled JSON::XS if it is properly compiled & installed, otherwise use JSON::PP.

=item PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'
Always use compiled JSON::XS, die if it isn't properly compiled & installed.

=item PERL_JSON_BACKEND = 'JSON::backportPP'
Always use JSON::backportPP.
JSON::backportPP is JSON::PP back port module. C<JSON> includes JSON::backportPP instead of JSON::PP.

These ideas come from L<DBI::PurePerl> mechanism.

**Example:**

```perl
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::PP' }
use JSON; # always uses JSON::PP
```

In future, it may be able to specify another module.

=head1 USE PP FEATURES EVEN THOUGH XS BACKEND

Many methods are available with either JSON::XS or JSON::PP and when the backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS unsupported) method is called, it will C<warn> and be noop.

But if you C<use> C<JSON> passing the optional string C<-support_by_pp>, it makes a part of those unsupported methods available. This feature is achieved by using JSON::PP in C<de/encode>.

```perl
BEGIN { $ENV{PERL_JSON_BACKEND} = 2 } # with JSON::XS
use JSON -support_by_pp;
my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");
```

At this time, the returned object is a C<JSON::Backend::XS::Supportable> object (re-blessed XS object), and by checking JSON::XS unsupported flags in de/encoding, can support some unsupported methods - C<loose>, C<allow_bignum>, C<allow_barekey>, C<allow_singlequote>, C<escape_slash> and C<indent_length>.

When any unsupported methods are not enabled, C<XS de/encode> will be used as is. The switch is achieved by changing the symbolic tables.

C<-support_by_pp> is effective only when the backend module is JSON::XS and it makes the de/encoding speed down a bit.

See to L<JSON::PP SUPPORT METHODS>.

=head1 INCOMPATIBLE CHANGES TO OLD VERSION

There are big incompatibility between new version (2.00) and old (1.xx). If you use old C<JSON> 1.xx in your code, please check it.

See to L<Transition ways from 1.xx to 2.xx>
item jsonToObj and objToJson are obsoleted.

Non Perl-style name C<jsonToObj> and C<objToJson> are obsoleted (but not yet deleted from the source).
If you use these functions in your code, please replace them with C<from_json> and C<to_json>.

item Global variables are no longer available.

C<JSON> class variables - C<$JSON::AUTOCONVERT>, C<$JSON::BareKey>, etc... - are no longer available.
Instead, various features can be used through object methods.

item Package JSON::Converter and JSON::Parser are deleted.

Now C<JSON> bundles with JSON::PP which can handle JSON more properly than them.

item Package JSON::NotString is deleted.

There was C<JSON::NotString> class which represents JSON value C<true>, C<false>, C>null
and numbers. It was deleted and replaced by C<JSON::Boolean>.

C<JSON::Boolean> represents C<true> and C<false>.

C<JSON::Boolean> does not represent C/null>.

C<JSON::null> returns C<undef>.

C<JSON> makes L<JSON::XS::Boolean> and L<JSON::PP::Boolean> is-a relation
to L<JSON::Boolean>.

item function JSON::Number is obsoleted.

C<JSON::Number> is now needless because JSON::XS and JSON::PP have round-trip integrity.

item JSONRPC modules are deleted.

Perl implementation of JSON-RPC protocol - C<JSONRPC>, C<JSONRPC::Transport::HTTP>
and C<Apache::JSONRPC> are deleted in this distribution.
Instead of them, there is L<JSON::RPC> which supports JSON-RPC protocol version 1.1.
=head2 Transition ways from 1.xx to 2.xx.

You should set C<support_by_pp> mode firstly, because it is always successful for the below codes even with JSON::XS.

   use JSON::XS::support_by_pp;

=over

=item Exported jsonToObj (simple)

   from_json($json_text);

=item Exported objToJson (simple)

   to_json($perl_scalar);

=item Exported jsonToObj (advanced)

   $flags = {allow_barekey => 1, allow_singlequote => 1};
   from_json($json_text, $flags);

   equivalent to:

   $JSON::BareKey = 1;
   $JSON::QuotApos = 1;
   jsonToObj($json_text);

=item Exported objToJson (advanced)

   $flags = {allow_blessed => 1, allow_barekey => 1};
   to_json($perl_scalar, $flags);

   equivalent to:

   $JSON::BareKey = 1;
   objToJson($perl_scalar);

=item jsonToObj as object method

   $json->decode($json_text);

=item objToJson as object method

   $json->encode($perl_scalar);

=item new method with parameters
The `new` method in 2.x takes any parameters no longer. You can set parameters instead;

```perl
$-json = JSON->new->pretty;
```

=item $JSON::Pretty, $JSON::Indent, $JSON::Delimiter

If `indent` is enable, that means `$JSON::Pretty` flag set. And `$JSON::Delimiter` was substituted by `space_before` and `space_after`. In conclusion:

```perl
$json->indent->space_before->space_after;
```

Equivalent to:

```perl
$json->pretty;
```

To change indent length, use `indent_length`.

(Only with JSON::PP, if `support_by_pp` is not used.)

```perl
$json->pretty->indent_length(2)->encode($perl_scalar);
```

=item $JSON::BareKey

(Only with JSON::PP, if `support_by_pp` is not used.)

```perl
$json->allow_barekey->decode($json_text)
```

=item $JSON::ConvBlessed

use `-convert_blessed_universally`. See to L<convert_blessed>.

=item $JSON::QuotApos

(Only with JSON::PP, if `support_by_pp` is not used.)

```perl
$json->allow_singlequote->decode($json_text)
```

=item $JSON::SingleQuote

Disable. C<$JSON> does not make such a invalid JSON string any longer.

=item $JSON::KeySort

```perl
$json->canonical->encode($perl_scalar)
```
This is the ascii sort.

If you want to use with your own sort routine, check the C<sort_by> method.

(Only with JSON::PP, even if C<-support_by_pp> is used currently.)

$json->sort_by($sort_routine_ref)->encode($perl_scalar)
$json->sort_by(sub { $JSON::PP::a <=> $JSON::PP::b })->encode($perl_scalar)

Can't access C<$a> and C<$b> but C<$JSON::PP::a> and C<$JSON::PP::b>.

=item $JSON::SkipInvalid

$json->allow_unknown

=item $JSON::AUTOCONVERT

Needless. C<JSON> backend modules have the round-trip integrity.

=item $JSON::UTF8

Needless because C<JSON> (JSON::XS/JSON::PP) sets the UTF8 flag on properly.

  # With UTF8-flagged strings

$json->allow_nonref;
$str = chr(1000); # UTF8-flagged

$json_text  = $json->utf8(0)->encode($str);
utf8::is_utf8($json_text);
# true
$json_text  = $json->utf8(1)->encode($str);
utf8::is_utf8($json_text);
# false

$str = '"'.chr(1000).'"'; # UTF8-flagged

$perl_scalar  = $json->utf8(0)->decode($str);
utf8::is_utf8($perl_scalar);
# true
$perl_scalar  = $json->utf8(1)->decode($str);
# died because of 'Wide character in subroutine'

See to L<JSON::XS/A FEW NOTES ON UNICODE AND PERL>.

=item $JSON::UnMapping
Disable. See to L\textless MAPPING\textgreater.

=item $\texttt{JSON::SelfConvert}$

This option was deleted.
Instead of it, if a given blessed object has the \texttt{TO\_JSON} method,
\texttt{TO\_JSON} will be executed with \texttt{convert\_blessed}.

\texttt{$\texttt{json}\rightarrow\texttt{convert\_blessed}\rightarrow\texttt{encode}($\texttt{blessed\_hashref\_or\_arrayref}$)}
\texttt{# if need, call allow\_blessed}

Note that it was \texttt{toJson} in old version, but now not \texttt{toJson} but \texttt{TO\_JSON}.

=back

=head1 TODO

=over

=item example programs

=back

=head1 THREADS

No test with JSON::PP. If with JSON::XS, See to L\textless JSON::XS/THREADS\textgreater.

=head1 BUGS

Please report bugs relevant to \texttt{JSON} to \texttt{makamaka[at]cpan.org}.\texttt{E\textless gt}.

=head1 SEE ALSO

Most of the document is copied and modified from JSON::XS doc.

L\textless JSON::XS\textgreater, L\textless JSON::PP\textgreater

C\textless RFC4627\textgreater(L\textless http://www.ietf.org/rfc/rfc4627.txt\textgreater)

=head1 AUTHOR

Makamaka Hannyaharamitu, \texttt{makamaka[at]cpan.org}\texttt{E\textless gt}.

JSON::XS was written by Marc Lehmann \texttt{schmorp[at]schmorp.de}
The release of this new version owes to the courtesy of Marc Lehmann.

=head1 COPYRIGHT AND LICENSE

Copyright 2005-2013 by Makamaka Hannyaharamitu

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1143253037_1615553069.82/0/libjson-perl-2-90-orig-1-tar-gz/JSON-2.90/lib/JSON.pm

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

JSON version 2.58
=================
"JSON::PP" was earlier included in the "JSON" distribution, but has since Perl 5.14 been a core module. For this reason, "JSON::PP" was removed from the "JSON" distribution and can now be found also in the Perl5 repository at

  http://perl5.git.perl.org/perl.git

(The newest "JSON::PP" version still exists in CPAN.)

Instead, the "JSON" distribution will include "JSON::backportPP" for backwards computability. JSON.pm should thus work as it did before.

=--------------------------

INSTALLATION

To install this module type the following:

 perl Makefile.PL
   make
   make test
   make install

if you use cpanm, can install JSON::XS at once.

  cpanm --with-recommends JSON

NAME
JSON - JSON (JavaScript Object Notation) encoder/decoder

SYNOPSIS
use JSON; # imports encode_json, decode_json, to_json and from_json.

# simple and fast interfaces (expect/generate UTF-8)
 utf8_encoded_json_text = encode_json $perl_hash_or_arrayref;
 Perl_hash_or_arrayref = decode_json $utf8_encoded_json_text;

# OO-interface
 json = JSON->new->allow_nonref;

 perl_text = json->encode( $perl_scalar );
 perl_scalar = json->decode( $perl_json_text );

 pretty_printed = json->pretty->encode( $perl_scalar ); # pretty-printing

# If you want to use PP only support features, call with '-support_by_pp'
# When XS unsupported feature is enable, using PP (de|en)code instead of XS ones.

 use JSON -support_by_pp;

# option-acceptable interfaces (expect/generate UNICODE by default)

 perl_json_text = to_json( $perl_scalar, { ascii => 1, pretty => 1 } );
 perl_scalar = from_json( $perl_json_text, { utf8 => 1 } );

# Between (en|de)code_json and (to|from)_json, if you want to write
# a code which communicates to an outer world (encoded in UTF-8),
# recommend to use (en|de)code_json.

VERSION
2.90

This version is compatible with JSON::XS 2.34 and later.
(Not yet compatible to JSON::XS B<3.0x>.)

NOTE
JSON::PP was earlier included in the "JSON" distribution, but has since
Perl 5.14 been a core module. For this reason, JSON::PP was removed from
the JSON distribution and can now be found also in the Perl5 repository
at

* <http://perl5.git.perl.org/perl.git>

(The newest JSON::PP version still exists in CPAN.)
Instead, the "JSON" distribution will include JSON::backportPP for backwards computability. JSON.pm should thus work as it did before.

DESCRIPTION

*************************** CAUTION ****************************************************
* * INCOMPATIBLE CHANGE (JSON::XS version 2.90) * *
* * JSON.pm had patched JSON::XS::Boolean and JSON::PP::Boolean internally * *
* on loading time for making these modules inherit JSON::Boolean. * *
* But since JSON::XS v3.0 it use Types::Serialiser as boolean class. * *
* Then now JSON.pm breaks boolean classe overload features and * *
* -support_by_pp if JSON::XS v3.0 or later is installed. * *
* * *
* JSON::true and JSON::false returned JSON::Boolean objects. * *
* For workaround, they return JSON::PP::Boolean objects in this version. * *
* * *
* isa_ok(JSON::true, 'JSON::PP::Boolean'); * *
* * *
* And it discards a feature: * *
* * *
* ok(JSON::true eq 'true'); * *
* * *
* In other word, JSON::PP::Boolean overload numeric only. * *
* * *
* ok( JSON::true == 1 ); * *
* * *
******************************************************************************

************************** CAUTION ********************************
* This is 'JSON module version 2' and there are many differences * *
* to version 1.xx * *
* Please check your applications using old version. * *
* See to 'INCOMPATIBLE CHANGES TO OLD VERSION' * *
******************************************************************************

JSON (JavaScript Object Notation) is a simple data format. See to <http://www.json.org/> and "RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>).

This module converts Perl data structures to JSON and vice versa using either JSON::XS or JSON::PP.

JSON::XS is the fastest and most proper JSON module on CPAN which must be compiled and installed in your environment. JSON::PP is a pure-Perl module which is bundled in this distribution and has a strong compatibility to JSON::XS.
This module try to use JSON::XS by default and fail to it, use JSON::PP instead. So its features completely depend on JSON::XS or JSON::PP.

See to "BACKEND MODULE DECISION".

To distinguish the module name 'JSON' and the format type JSON, the former is quoted by C<> (its results vary with your using media), and the latter is left just as it is.

Module name : "JSON"

Format type : JSON

FEATURES

* correct unicode handling

This module (i.e. backend modules) knows how to handle Unicode, documents how and when it does so, and even documents what "correct" means.

Even though there are limitations, this feature is available since Perl version 5.6.

JSON::XS requires Perl 5.8.2 (but works correctly in 5.8.8 or later), so in older versions "JSON" should call JSON::PP as the backend which can be used since Perl 5.005.

With Perl 5.8.x JSON::PP works, but from 5.8.0 to 5.8.2, because of a Perl side problem, JSON::PP works slower in the versions. And in 5.005, the Unicode handling is not available. See to "UNICODE HANDLING ON PERLS" in JSON::PP for more information.

See also to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS and "ENCODING/CODESET_FLAG_NOTES" in JSON::XS.

* round-trip integrity

When you serialise a perl data structure using only data types supported by JSON and Perl, the deserialised data structure is identical on the Perl level. (e.g. the string "2.0" doesn't suddenly become "2" just because it looks like a number). There *are* minor exceptions to this, read the "MAPPING" section below to learn about those.

* strict checking of JSON correctness

There is no guessing, no generating of illegal JSON texts by
default, and only JSON is accepted as input by default (the latter is a security feature).

See to "FEATURES" in JSON::XS and "FEATURES" in JSON::PP.

* fast

This module returns a JSON::XS object itself if available. Compared to other JSON modules and other serialisers such as Storable, JSON::XS usually compares favorably in terms of speed, too.

If not available, "JSON" returns a JSON::PP object instead of JSON::XS and it is very slow as pure-Perl.

* simple to use

This module has both a simple functional interface as well as an object oriented interface interface.

* reasonably versatile output formats

You can choose between the most compact guaranteed-single-line format possible (nice for simple line-based protocols), a pure-ASCII format (for when your transport is not 8-bit clean, still supports the whole Unicode range), or a pretty-printed format (for when you want to read that stuff). Or you can combine those features in whatever way you like.

FUNCTIONAL INTERFACE
Some documents are copied and modified from "FUNCTIONAL INTERFACE" in JSON::XS. "to_json" and "from_json" are additional functions.

encode_json
$json_text = encode_json $perl_scalar

Converts the given Perl data structure to a UTF-8 encoded, binary string.

This function call is functionally identical to:

    $json_text = JSON->new->utf8->encode($perl_scalar)

decode_json
$perl_scalar = decode_json $json_text

The opposite of "encode_json": expects an UTF-8 (binary) string and tries to parse that as an UTF-8 encoded JSON text, returning the resulting reference.
This function call is functionally identical to:

```perl
$perl_scalar = JSON->new->utf8->decode($json_text)
```

**to_json**

```perl
$json_text = to_json($perl_scalar)
```

Converts the given Perl data structure to a json string.

This function call is functionally identical to:

```perl
$json_text = JSON->new->encode($perl_scalar)
```

Takes a hash reference as the second.

```perl
$json_text = to_json($perl_scalar, $flag_hashref)
```

So,

```perl
$json_text = to_json($perl_scalar, {utf8 => 1, pretty => 1})
```

equivalent to:

```perl
$json_text = JSON->new->utf8(1)->pretty(1)->encode($perl_scalar)
```

If you want to write a modern perl code which communicates to outer world, you should use "encode_json" (supposed that JSON data are encoded in UTF-8).

**from_json**

```perl
$perl_scalar = from_json($json_text)
```

The opposite of "to_json": expects a json string and tries to parse it, returning the resulting reference.

This function call is functionally identical to:

```perl
$perl_scalar = JSON->decode($json_text)
```

Takes a hash reference as the second.

```perl
$perl_scalar = from_json($json_text, $flag_hashref)
```

So,

```perl
$perl_scalar = from_json($json_text, {utf8 => 1})
```
equivalent to:

```perl
$perl_scalar = JSON->new->utf8(1)->decode($json_text)
```

If you want to write a modern perl code which communicates to outer world, you should use "decode_json" (supposed that JSON data are encoded in UTF-8).

**JSON::is_bool**

```perl
$is_boolean = JSON::is_bool($scalar)
```

Returns true if the passed scalar represents either JSON::true or JSON::false, two constants that act like 1 and 0 respectively and are also used to represent JSON "true" and "false" in Perl strings.

**JSON::true**

Returns JSON true value which is blessed object. It "isa" JSON::Boolean object.

**JSON::false**

Returns JSON false value which is blessed object. It "isa" JSON::Boolean object.

**JSON::null**

Returns "undef".

See MAPPING, below, for more information on how JSON values are mapped to Perl.

**HOW DO I DECODE A DATA FROM OUTER AND ENCODE TO OUTER**

This section supposes that your perl version is 5.8 or later.

If you know a JSON text from an outer world - a network, a file content, and so on, is encoded in UTF-8, you should use "decode_json" or "JSON" module object with "utf8" enable. And the decoded result will contain UNICODE characters.

```perl
# from network
my $json = JSON->new->utf8;
my $json_text = CGI->new->param( 'json_data' );
my $perl_scalar = $json->decode( $json_text );

# from file content
local $/;
open( my $fh, '<', 'json.data' );
$json_text = <$fh>;
$perl_scalar = decode_json( $json_text );
```
If an outer data is not encoded in UTF-8, firstly you should "decode" it.

```perl
use Encode;
local $/;
open( my $fh, '<', 'json.data' );
my $encoding = 'cp932';
my $unicode_json_text = decode( $encoding, <$fh> ); # UNICODE

# or you can write the below code.
#
# open( my $fh, "<:encoding($encoding)", 'json.data' );
# $unicode_json_text = <$fh>;
```

In this case, $unicode_json_text is of course UNICODE string. So you cannot use "decode_json" nor "JSON" module object with "utf8" enable. Instead of them, you use "JSON" module object with "utf8" disable or "from_json".

```perl
$perl_scalar = $json->utf8(0)->decode( $unicode_json_text );
# or
$perl_scalar = from_json( $unicode_json_text );
```

Or "encode 'utf8'" and "decode_json":

```perl
$perl_scalar = decode_json( encode( 'utf8', $unicode_json_text ) );
# this way is not efficient.
```

And now, you want to convert your $perl_scalar into JSON data and send it to an outer world - a network or a file content, and so on.

Your data usually contains UNICODE strings and you want the converted data to be encoded in UTF-8, you should use "encode_json" or "JSON" module object with "utf8" enable.

```perl
print encode_json( $perl_scalar ); # to a network? file? or display?
# or
print $json->utf8->encode( $perl_scalar );
```

If $perl_scalar does not contain UNICODE but $encoding-encoded strings for some reason, then its characters are regarded as latin1 for perl (because it does not concern with your $encoding). You cannot use "encode_json" nor "JSON" module object with "utf8" enable. Instead of them, you use "JSON" module object with "utf8" disable or "to_json". Note that the resulted text is a UNICODE string but no problem to print it.

```perl
# $perl_scalar contains $encoding encoded string values
```
$unicode_json_text = $json->utf8()->encode( $perl_scalar );
# or
$unicode_json_text = to_json( $perl_scalar );
# $unicode_json_text consists of characters less than 0x100
print $unicode_json_text;

Or "decode $encoding" all string values and "encode_json":

$perl_scalar->{ foo } = decode( $encoding, $perl_scalar->{ foo } );
# ... do it to each string values, then encode_json
$json_text = encode_json( $perl_scalar );

This method is a proper way but probably not efficient.

See to Encode, perluniintro.

COMMON OBJECT-ORIENTED INTERFACE
new

$json = JSON->new

Returns a new "JSON" object inherited from either JSON::XS or JSON::PP
that can be used to de/encode JSON strings.

All boolean flags described below are by default *disabled*.

The mutators for flags all return the JSON object again and thus calls
can be chained:

my $json = JSON->new->utf8->space_after->encode({ a => [1,2] })
=> { "a": [1, 2] }

ascii
$json = $json->ascii($enable)

$enabled = $json->get_ascii

If $enable is true (or missing), then the encode method will not
generate characters outside the code range 0..127. Any Unicode
characters outside that range will be escaped using either a single
\uXXXX or a double \uHHHH\uLLLLL escape sequence, as per RFC4627.

If $enable is false, then the encode method will not escape Unicode
characters unless required by the JSON syntax or other flags. This
results in a faster and more compact format.

This feature depends on the used Perl version and environment.

See to "UNICODE HANDLING ON PERLS" in JSON::PP if the backend is PP.
JSON->new->ascii(1)->encode([chr 0x10401])
=> ["\ud801\udc01"]

latin1
$json = $json->latin1([$enable])

$enabled = $json->get_latin1

If $enable is true (or missing), then the encode method will encode the resulting JSON text as latin1 (or iso-8859-1), escaping any characters outside the code range 0..255.

If $enable is false, then the encode method will not escape Unicode characters unless required by the JSON syntax or other flags.

JSON->new->latin1->encode ("\x{89}\x{abc}")
=> ["\x{89}\u0abc"]    # (perl syntax, U+abc escaped, U+89 not)

utf8
$json = $json->utf8([$enable])

$enabled = $json->get_utf8

If $enable is true (or missing), then the encode method will encode the JSON result into UTF-8, as required by many protocols, while the decode method expects to be handled an UTF-8-encoded string. Please note that UTF-8-encoded strings do not contain any characters outside the range 0..255, they are thus useful for bytewise/binary I/O.

In future versions, enabling this option might enable autodetection of the UTF-16 and UTF-32 encoding families, as described in RFC4627.

If $enable is false, then the encode method will return the JSON string as a (non-encoded) Unicode string, while decode expects thus a Unicode string. Any decoding or encoding (e.g. to UTF-8 or UTF-16) needs to be done yourself, e.g. using the Encode module.

Example, output UTF-16BE-encoded JSON:

use Encode;
$jsontext = encode "UTF-16BE", JSON::XS->new->encode ($object);

Example, decode UTF-32LE-encoded JSON:

use Encode;
$object = JSON::XS->new->decode (decode "UTF-32LE", $jsontext);
pretty
   $json = $json->pretty([$enable])

This enables (or disables) all of the "indent", "space_before" and
"space_after" (and in the future possibly more) flags in one call to
generate the most readable (or most compact) form possible.

Equivalent to:

   $json->indent->space_before->space_after

The indent space length is three and JSON::XS cannot change the indent
space length.

indent
   $json = $json->indent([$enable])

   $enabled = $json->get_indent

If $enable is true (or missing), then the "encode" method will use a
multiline format as output, putting every array member or object/hash
key-value pair into its own line, identifying them properly.

If $enable is false, no newlines or indenting will be produced, and the
resulting JSON text is guaranteed not to contain any "newlines".

This setting has no effect when decoding JSON texts.

The indent space length is three. With JSON::PP, you can also access
"indent_length" to change indent space length.

space_before
   $json = $json->space_before([$enable])

   $enabled = $json->get_space_before

If $enable is true (or missing), then the "encode" method will add an
extra optional space before the ":" separating keys from values in JSON
objects.

If $enable is false, then the "encode" method will not add any extra
space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before enabled, space_after and indent disabled:
space_after
$json = $json->space_after([$enable])

$enabled = $json->get_space_after

If $enable is true (or missing), then the "encode" method will add an extra optional space after the ":" separating keys from values in JSON objects and extra whitespace after the ",," separating key-value pairs and array members.

If $enable is false, then the "encode" method will not add any extra space at those places.

This setting has no effect when decoding JSON texts.

Example, space_before and indent disabled, space_after enabled:

{"key": "value"}

relaxed
$json = $json->relaxed([$enable])

$enabled = $json->get_relaxed

If $enable is true (or missing), then "decode" will accept some extensions to normal JSON syntax (see below). "encode" will not be affected in any way. *Be aware that this option makes you accept invalid JSON texts as if they were valid!* I suggest only to use this option to parse application-specific files written by humans (configuration files, resource files etc.)

If $enable is false (the default), then "decode" will only accept valid JSON texts.

Currently accepted extensions are:

* list items can have an end-comma

JSON *separates* array elements and key-value pairs with commas. This can be annoying if you write JSON texts manually and want to be able to quickly append elements, so this extension accepts comma at the end of such items not just between them:

[ 1,
2, <- this comma not normally allowed
]
[
"k1": "v1",
"k2": "v2", <- this comma not normally allowed
]

* shell-style '#'-comments

Whenever JSON allows whitespace, shell-style comments are additionally allowed. They are terminated by the first carriage-return or line-feed character, after which more white-space and comments are allowed.

[
  1, # this comment not allowed in JSON
  # neither this one...
]
canonical
$json = $json->canonical([$enable])

$enabled = $json->get_canonical

If $enable is true (or missing), then the "encode" method will output JSON objects by sorting their keys. This is adding a comparatively high overhead.

If $enable is false, then the "encode" method will output key-value pairs in the order Perl stores them (which will likely change between runs of the same script).

This option is useful if you want the same data structure to be encoded as the same JSON text (given the same overall settings). If it is disabled, the same hash might be encoded differently even if contains the same data, as key-value pairs have no inherent ordering in Perl.

This setting has no effect when decoding JSON texts.

allow_nonref
$json = $json->allow_nonref([$enable])

$enabled = $json->get_allow_nonref

If $enable is true (or missing), then the "encode" method can convert a non-reference into its corresponding string, number or null JSON value, which is an extension to RFC4627. Likewise, "decode" will accept those JSON values instead of croaking.
If $enable is false, then the "encode" method will croak if it isn't passed an arrayref or hashref, as JSON texts must either be an object or array. Likewise, "decode" will croak if given something that is not a JSON object or array.

```perl
JSON->new->allow_nonref->encode("Hello, World!")
=> "Hello, World!"
```

**allow_unknown**

```perl
$json = $json->allow_unknown([$enable])

$enabled = $json->get_allow_unknown
```

If $enable is true (or missing), then "encode" will *not* throw an exception when it encounters values it cannot represent in JSON (for example, filehandles) but instead will encode a JSON "null" value. Note that blessed objects are not included here and are handled separately by c<allow_nonref>.

If $enable is false (the default), then "encode" will throw an exception when it encounters anything it cannot encode as JSON.

This option does not affect "decode" in any way, and it is recommended to leave it off unless you know your communications partner.

**allow_blessed**

```perl
$json = $json->allow_blessed([$enable])

$enabled = $json->get_allow_blessed
```

If $enable is true (or missing), then the "encode" method will not barf when it encounters a blessed reference. Instead, the value of the convert_blessed option will decide whether "null" ("convert_blessed" disabled or no "TO_JSON" method found) or a representation of the object ("convert_blessed" enabled and "TO_JSON" method found) is being encoded. Has no effect on "decode".

If $enable is false (the default), then "encode" will throw an exception when it encounters a blessed object.

**convert_blessed**

```perl
$json = $json->convert_blessed([$enable])

$enabled = $json->get_convert_blessed
```

If $enable is true (or missing), then "encode", upon encountering a blessed object, will check for the availability of the "TO_JSON" method
on the object's class. If found, it will be called in scalar context and the resulting scalar will be encoded instead of the object. If no "TO_JSON" method is found, the value of "allow_blessed" will decide what to do.

The "TO_JSON" method may safely call die if it wants. If "TO_JSON" returns other blessed objects, those will be handled in the same way. "TO_JSON" must take care of not causing an endless recursion cycle (== crash) in this case. The name of "TO_JSON" was chosen because other methods called by the Perl core (== not by the user of the object) are usually in upper case letters and to avoid collisions with the "to_json" function or method.

This setting does not yet influence "decode" in any way.

If $enable is false, then the "allow_blessed" setting will decide what to do when a blessed object is found.

**convert_blessed_universally mode**

If use "JSON" with "-convert_blessed_universally", the "UNIVERSAL::TO_JSON" subroutine is defined as the below code:

```perl
*UNIVERSAL::TO_JSON = sub {
    my $b_obj = B::svref_2object( $_[0] );
    return $b_obj->isa('B::HV') ? %{ $_[0] } :
                      $b_obj->isa('B::AV') ? @{ $_[0] } :
                              undef ;
}
```

This will cause that "encode" method converts simple blessed objects into JSON objects as non-blessed object.

```
JSON -convert_blessed_universally;
$json->allow_blessed->convert_blessed->encode( $blessed_object )
```

This feature is experimental and may be removed in the future.

**filter_json_object**

```
$json = $json->filter_json_object([$coderef])
```

When $coderef is specified, it will be called from "decode" each time it decodes a JSON object. The only argument passed to the coderef is a reference to the newly-created hash. If the code references returns a single scalar (which need not be a reference), this value (i.e. a copy of that scalar to avoid aliasing) is inserted into the deserialised data structure. If it returns an empty list (NOTE: *not* "undef", which is a valid scalar), the original deserialised hash will be inserted. This
setting can slow down decoding considerably.

When $coderef is omitted or undefined, any existing callback will be removed and "decode" will not change the deserialised hash in any way.

Example, convert all JSON objects into the integer 5:

```perl
my $js = JSON->new->filter_json_object (sub { 5 });
# returns 5
$js->decode ('[
');  # the given subroutine takes a hash reference.
# throw an exception because allow_nonref is not enabled
# so a lone 5 is not allowed.
$js->decode ('{"a":1, "b":2}');
```

filter_json_single_key_object

```perl
$js = $js->filter_json_single_key_object($key => $coderef)
```

Works remotely similar to "filter_json_object", but is only called for JSON objects having a single key named $key.

This $coderef is called before the one specified via "filter_json_object", if any. It gets passed the single value in the JSON object. If it returns a single value, it will be inserted into the data structure. If it returns nothing (not even "undef" but the empty list), the callback from "filter_json_object" will be called next, as if no single-key callback were specified.

If $coderef is omitted or undefined, the corresponding callback will be disabled. There can only ever be one callback for a given key.

As this callback gets called less often then the "filter_json_object" one, decoding speed will not usually suffer as much. Therefore, single-key objects make excellent targets to serialise Perl objects into, especially as single-key JSON objects are as close to the type-tagged value concept as JSON gets (it's basically an ID/VALUE tuple). Of course, JSON does not support this in any way, so you need to make sure your data never looks like a serialised Perl hash.

Typical names for the single object key are "__class_whatever__", or "$_dolars_are_rarely_used__$" or "]ugly_brace_placement"; or even things like "__class_md5sum(classname)__", to reduce the risk of clashing with real hashes.

Example, decode JSON objects of the form "{"__widget__" => <id>}" into the corresponding $WIDGET{<id>} object:

```perl
# return whatever is in $WIDGET{5}:
```
->filter_json_single_key_object (__widget__ => sub {
    $WIDGET{ $_[0] }
})
->decode ('{"__widget__": 5'}

# this can be used with a TO_JSON method in some "widget" class
# for serialization to json:
sub WidgetBase::TO_JSON {
    my ($self) = @_;

    unless ($self->{id}) {
        $self->{id} = ..get..some..id..;
        $WIDGET{$self->{id}} = $self;
    }

    { __widget__ => $self->{id} }
}

shrink
$json = $json->shrink([$enable])

$enabled = $json->get_shrink

With JSON::XS, this flag resizes strings generated by either "encode" or
"decode" to their minimum size possible. This can save memory when your
JSON texts are either very very long or you have many short strings. It
will also try to downgrade any strings to octet-form if possible: perl
stores strings internally either in an encoding called UTF-X or in
octet-form. The latter cannot store everything but uses less space in
general (and some buggy Perl or C code might even rely on that internal
representation being used).

With JSON::PP, it is noop about resizing strings but tries
"utf8::downgrade" to the returned string by "encode". See to utf8.

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS and "METHODS" in
JSON::PP.

max_depth
$json = $json->max_depth([$maximum_nesting_depth])

$max_depth = $json->get_max_depth

Sets the maximum nesting level (default 512) accepted while encoding or
decoding. If a higher nesting level is detected in JSON text or a Perl
data structure, then the encoder and decoder will stop and croak at that
point.
Nesting level is defined by number of hash- or arrayrefs that the encoder needs to traverse to reach a given point or the number of "[" or "]" characters without their matching closing parenthesis crossed to reach a given character in a string.

If no argument is given, the highest possible setting will be used, which is rarely useful.

Note that nesting is implemented by recursion in C. The default value has been chosen to be as large as typical operating systems allow without crashing. (JSON::XS)

With JSON::PP as the backend, when a large value (100 or more) was set and it de/encodes a deep nested object/text, it may raise a warning 'Deep recursion on subroutine' at the perl runtime phase.

See "SECURITY CONSIDERATIONS" in JSON::XS for more info on why this is useful.

max_size

$json = $json->max_size([$maximum_string_size])

$max_size = $json->get_max_size

Set the maximum length a JSON text may have (in bytes) where decoding is being attempted. The default is 0, meaning no limit. When "decode" is called on a string that is longer then this many bytes, it will not attempt to decode the string but throw an exception. This setting has no effect on "encode" (yet).

If no argument is given, the limit check will be deactivated (same as when 0 is specified).

See "SECURITY CONSIDERATIONS" in JSON::XS, below, for more info on why this is useful.

encode

$json_text = $json->encode($perl_scalar)

Converts the given Perl data structure (a simple scalar or a reference to a hash or array) to its JSON representation. Simple scalars will be converted into JSON string or number sequences, while references to arrays become JSON arrays and references to hashes become JSON objects. Undefined Perl values (e.g. "undef") become JSON "null" values. References to the integers 0 and 1 are converted into "true" and "false".
decode
   $perl_scalar = $json->decode($json_text)

The opposite of "encode": expects a JSON text and tries to parse it, returning the resulting simple scalar or reference. Croaks on error.

JSON numbers and strings become simple Perl scalars. JSON arrays become Perl arrayrefs and JSON objects become Perl hashrefs. "true" becomes 1 ("JSON::true"), "false" becomes 0 ("JSON::false") and "null" becomes "undef".

decode_prefix
   ($perl_scalar, $characters) = $json->decode_prefix($json_text)

This works like the "decode" method, but instead of raising an exception when there is trailing garbage after the first JSON object, it will silently stop parsing there and return the number of characters consumed so far.

   JSON->new->decode_prefix ("[1] the tail")
   => ([], 3)

See to "OBJECT-ORIENTED INTERFACE" in JSON::XS

property
   $boolean = $json->property($property_name)

Returns a boolean value about above some properties.

The available properties are "ascii", "latin1", "utf8", "indent", "space_before", "space_after", "relaxed", "canonical", "allow_nonref", "allow_unknown", "allow_blessed", "convert_blessed", "shrink", "max_depth" and "max_size".

   $boolean = $json->property('utf8');
   => 0
   $json->utf8;
   $boolean = $json->property('utf8');
   => 1

Sets the property with a given boolean value.

   $json = $json->property($property_name => $boolean);

With no argument, it returns all the above properties as a hash reference.

   $flag_hashref = $json->property();
INCREMENTAL PARSING

Most of this section are copied and modified from "INCREMENTAL PARSING" in JSON::XS.

In some cases, there is the need for incremental parsing of JSON texts. This module does allow you to parse a JSON stream incrementally. It does so by accumulating text until it has a full JSON object, which it then can decode. This process is similar to using "decode_prefix" to see if a full JSON object is available, but is much more efficient (and can be implemented with a minimum of method calls).

The backend module will only attempt to parse the JSON text once it is sure it has enough text to get a decisive result, using a very simple but truly incremental parser. This means that it sometimes won't stop as early as the full parser, for example, it doesn't detect parenthesis mismatches. The only thing it guarantees is that it starts decoding as soon as a syntactically valid JSON text has been seen. This means you need to set resource limits (e.g. "max_size") to ensure the parser will stop parsing in the presence if syntax errors.

The following methods implement this incremental parser.

incr_parse

    $json->incr_parse( [String] ) # void context

    $obj_or_undef = $json->incr_parse( [String] ) # scalar context

    @obj_or_empty = $json->incr_parse( [String] ) # list context

This is the central parsing function. It can both append new text and extract objects from the stream accumulated so far (both of these functions are optional).

If $string is given, then this string is appended to the already existing JSON fragment stored in the $json object.

After that, if the function is called in void context, it will simply return without doing anything further. This can be used to add more text in as many chunks as you want.

If the method is called in scalar context, then it will try to extract exactly *one* JSON object. If that is successful, it will return this object, otherwise it will return "undef". If there is a parse error, this method will croak just as "decode" would do (one can then use "incr_skip" to skip the erroneous part). This is the most common way of using the method.
And finally, in list context, it will try to extract as many objects from the stream as it can find and return them, or the empty list otherwise. For this to work, there must be no separators between the JSON objects or arrays, instead they must be concatenated back-to-back. If an error occurs, an exception will be raised as in the scalar context case. Note that in this case, any previously-parsed JSON texts will be lost.

Example: Parse some JSON arrays/objects in a given string and return them.

```perl
my @objs = JSON->new->incr_parse ("[5][7][1.2]");
```

**incr_text**

`$lvalue_string = $json->incr_text`

This method returns the currently stored JSON fragment as an lvalue, that is, you can manipulate it. This *only* works when a preceding call to "incr_parse" in *scalar context* successfully returned an object. Under all other circumstances you must not call this function (I mean it. although in simple tests it might actually work, it *will* fail under real world conditions). As a special exception, you can also call this method before having parsed anything.

This function is useful in two cases: a) finding the trailing text after a JSON object or b) parsing multiple JSON objects separated by non-JSON text (such as commas).

```perl
$json->incr_text =~ s/\s*,\s*//;
```

In Perl 5.005, "lvalue" attribute is not available. You must write codes like the below:

```perl
$string = $json->incr_text;
$string =~ s/\s*,\s*//;
$json->incr_text( $string );
```

**incr_skip**

`$json->incr_skip`

This will reset the state of the incremental parser and will remove the parsed text from the input buffer. This is useful after "incr_parse" died, in which case the input buffer and incremental parser state is left unchanged, to skip the text parsed so far and to reset the parse state.

**incr_reset**

`$json->incr_reset`
This completely resets the incremental parser, that is, after this call, it will be as if the parser had never parsed anything.

This is useful if you want to repeatedly parse JSON objects and want to ignore any trailing data, which means you have to reset the parser after each successful decode.

See to "INCREMENTAL PARSING" in JSON::XS for examples.

JSON::PP SUPPORT METHODS
The below methods are JSON::PP own methods, so when "JSON" works with JSON::PP (i.e. the created object is a JSON::PP object), available. See to "JSON::PP OWN METHODS" in JSON::PP in detail.

If you use "JSON" with additional "-support_by_pp", some methods are available even with JSON::XS. See to "USE PP FEATURES EVEN THOUGH XS BACKEND".

BEING { $ENV{PERL_JSON_BACKEND} = 'JSON::XS' }

use JSON -support_by_pp;

my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

# functional interfaces too.
print to_json(['/'], {escape_slash => 1});
print from_json('["foo"]', {utf8 => 1});

If you do not want to all functions but "-support_by_pp", use "-no_export".

use JSON -support_by_pp, -no_export;
# functional interfaces are not exported.

allow_singlequote
$json = $json->allow_singlequote([$enable])

If $enable is true (or missing), then "decode" will accept any JSON strings quoted by single quotations that are invalid JSON format.

$json->allow_singlequote->decode(['"foo":"bar"']);
$json->allow_singlequote->decode({'foo":"bar"'});
$json->allow_singlequote->decode(['foo':'bar']);

As same as the "relaxed" option, this option may be used to parse application-specific files written by humans.
allow_barekey
$json = $json->allow_barekey([$enable])
If $enable is true (or missing), then "decode" will accept bare keys of
JSON object that are invalid JSON format.
As same as the "relaxed" option, this option may be used to parse
application-specific files written by humans.
$json->allow_barekey->decode('{foo:"bar"}');
allow_bignum
$json = $json->allow_bignum([$enable])
If $enable is true (or missing), then "decode" will convert the big
integer Perl cannot handle as integer into a Math::BigInt object and
convert a floating number (any) into a Math::BigFloat.
On the contrary, "encode" converts "Math::BigInt" objects and
"Math::BigFloat" objects into JSON numbers with "allow_blessed" enable.
$json->allow_nonref->allow_blessed->allow_bignum;
$bigfloat = $json->decode('2.000000000000000000000000001');
print $json->encode($bigfloat);
# => 2.000000000000000000000000001
See to MAPPING about the conversion of JSON number.
loose
$json = $json->loose([$enable])
The unescaped [\x00-\x1f\x22\x2f\x5c] strings are invalid in JSON
strings and the module doesn't allow to "decode" to these (except for
\x2f). If $enable is true (or missing), then "decode" will accept these
unescaped strings.
$json->loose->decode(qq|["abc
def"]|);
See to "JSON::PP OWN METHODS" in JSON::PP.
escape_slash
$json = $json->escape_slash([$enable])
According to JSON Grammar, *slash* (U+002F) is escaped. But by default
JSON backend modules encode strings without escaping slash.

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If $enable is true (or missing), then "encode" will escape slashes.

```perl
indent_length
$json = $json->indent_length($length)
```

With JSON::XS, The indent space length is 3 and cannot be changed. With JSON::PP, it sets the indent space length with the given $length. The default is 3. The acceptable range is 0 to 15.

```perl
sort_by
$json = $json->sort_by($function_name)
$json = $json->sort_by($subroutine_ref)
```

If $function_name or $subroutine_ref are set, its sort routine are used.

```perl
$js = $pc->sort_by(sub { $JSON::PP::a cmp $JSON::PP::b })->encode($obj);
# is($js, q!["a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9]!);
$js = $pc->sort_by('own_sort')->encode($obj);
# is($js, q!["a":1,"b":2,"c":3,"d":4,"e":5,"f":6,"g":7,"h":8,"i":9]!);
sub JSON::PP::own_sort { $JSON::PP::a cmp $JSON::PP::b }
```

As the sorting routine runs in the JSON::PP scope, the given subroutine name and the special variables $a, $b will begin with 'JSON::PP::'.

If $integer is set, then the effect is same as "canonical" on.

See to "JSON::PP OWN METHODS" in JSON::PP.

MAPPING
This section is copied from JSON::XS and modified to "JSON". JSON::XS and JSON::PP mapping mechanisms are almost equivalent.

See to "MAPPING" in JSON::XS.

JSON -> PERL
object
A JSON object becomes a reference to a hash in Perl. No ordering of object keys is preserved (JSON does not preserver object key ordering itself).

array
A JSON array becomes a reference to an array in Perl.

string
A JSON string becomes a string scalar in Perl - Unicode codepoints in JSON are represented by the same codepoints in the Perl string.
so no manual decoding is necessary.

A JSON number becomes either an integer, numeric (floating point) or string scalar in perl, depending on its range and any fractional parts. On the Perl level, there is no difference between those as Perl handles all the conversion details, but an integer may take slightly less memory and might represent more values exactly than floating point numbers.

If the number consists of digits only, "JSON" will try to represent it as an integer value. If that fails, it will try to represent it as a numeric (floating point) value if that is possible without loss of precision. Otherwise it will preserve the number as a string value (in which case you lose roundtripping ability, as the JSON number will be re-encoded to a JSON string).

Numbers containing a fractional or exponential part will always be represented as numeric (floating point) values, possibly at a loss of precision (in which case you might lose perfect roundtripping ability, but the JSON number will still be re-encoded as a JSON number).

Note that precision is not accuracy - binary floating point values cannot represent most decimal fractions exactly, and when converting from and to floating point, "JSON" only guarantees precision up to but not including the least significant bit.

If the backend is JSON::PP and "allow_bignum" is enable, the big integers and the numeric can be optionally converted into Math::BigInt and Math::BigFloat objects.

true, false
These JSON atoms become "JSON::true" and "JSON::false", respectively. They are overloaded to act almost exactly like the numbers 1 and 0. You can check whether a scalar is a JSON boolean by using the "JSON::is_bool" function.

```
print JSON::true + 1;
=> 1

ok(JSON::true eq '1');
ok(JSON::true == 1);

"JSON" will install these missing overloading features to the backend modules.

null
A JSON null atom becomes "undef" in Perl.

"JSON::null" returns "undef".

**PERL -> JSON**

The mapping from Perl to JSON is slightly more difficult, as Perl is a
truly typeless language, so we can only guess which JSON type is meant
by a Perl value.

hash references

Perl hash references become JSON objects. As there is no inherent
ordering in hash keys (or JSON objects), they will usually be
encoded in a pseudo-random order that can change between runs of the
same program but stays generally the same within a single run of a
program. "JSON" optionally sort the hash keys (determined by the
*canonical* flag), so the same data structure will serialise to the
same JSON text (given same settings and version of JSON::XS), but
this incurs a runtime overhead and is only rarely useful, e.g. when
you want to compare some JSON text against another for equality.

In future, the ordered object feature will be added to JSON::PP
using "tie" mechanism.

array references

Perl array references become JSON arrays.

other references

Other unblessed references are generally not allowed and will cause
an exception to be thrown, except for references to the integers 0
and 1, which get turned into "false" and "true" atoms in JSON. You
can also use "JSON::false" and "JSON::true" to improve readability.

```perl
to_json [0,JSON::true]      # yields [false,true]
```

JSON::true, JSON::false, JSON::null

These special values become JSON true and JSON false values,
respectively. You can also use "\1" and "\0" directly if you want.

JSON::null returns "undef".

blessed objects

Blessed objects are not directly representable in JSON. See the
"allow_blessed" and "convert_blessed" methods on various options on
how to deal with this: basically, you can choose between throwing an
exception, encoding the reference as if it weren't blessed, or
provide your own serialiser method.

With "convert_blessed_universally" mode, "encode" converts blessed
hash references or blessed array references (contains other blessed references) into JSON members and arrays.

use JSON::convert_blessed_universally;
JSON->new->allow_blessed->convert_blessed->encode($blessed_object);

See to convert_blessed.

simple scalars
Simple Perl scalars (any scalar that is not a reference) are the most difficult objects to encode: JSON::XS and JSON::PP will encode undefined scalars as JSON "null" values, scalars that have last been used in a string context before encoding as JSON strings, and anything else as number value:

    # dump as number
    encode_json [-3.0e17]                # yields [-3e+17]
    my $value = 5; encode_json [$value]  # yields [5]

    # used as string, so dump as string
    print $value;
    encode_json [$value]                 # yields ["5"]

    # undef becomes null
    encode_json [undef]                  # yields [null]

You can force the type to be a string by stringifying it:

    my $x = 3.1; # some variable containing a number
    "$x";      # stringified
    $x .= "";  # another, more awkward way to stringify
    print $x;  # perl does it for you, too, quite often

You can force the type to be a number by numifying it:

    my $x = "3"; # some variable containing a string
    $x += 0;    # numify it, ensuring it will be dumped as a number
    $x *= 1;    # same thing, the choice is yours.

You can not currently force the type in other, less obscure, ways.

Note that numerical precision has the same meaning as under Perl (so binary to decimal conversion follows the same rules as in Perl, which can differ to other languages). Also, your perl interpreter might expose extensions to the floating point numbers of your platform, such as infinities or NaN's - these cannot be represented in JSON, and it is an error to pass those in.
Big Number
If the backend is JSON::PP and "allow_bignum" is enable, "encode"
converts "Math::BigInt" objects and "Math::BigFloat" objects into
JSON numbers.

JSON and ECMAScript
See to "JSON and ECMAScript" in JSON::XS.

JSON and YAML
JSON is not a subset of YAML. See to "JSON and YAML" in JSON::XS.

BACKEND MODULE DECISION
When you use "JSON", "JSON" tries to "use" JSON::XS. If this call
failed, it will "uses" JSON::PP. The required JSON::XS version is *2.2*
or later.

The "JSON" constructor method returns an object inherited from the
backend module, and JSON::XS object is a blessed scalar reference while
JSON::PP is a blessed hash reference.

So, your program should not depend on the backend module, especially
returned objects should not be modified.

my $json = JSON->new; # XS or PP?
$json->{stash} = 'this is xs object'; # this code may raise an error!

To check the backend module, there are some methods - "backend", "is_pp"
and "is_xs".

JSON->backend; # 'JSON::XS' or 'JSON::PP'
JSON->backend->is_pp: # 0 or 1
JSON->backend->is_xs: # 1 or 0

$json->is_xs; # 1 or 0

$json->is_pp; # 0 or 1

If you set an environment variable "PERL_JSON_BACKEND", the calling
action will be changed.

PERL_JSON_BACKEND = 0 or PERL_JSON_BACKEND = 'JSON::PP'
Always use JSON::PP

PERL_JSON_BACKEND == 1 or PERL_JSON_BACKEND = 'JSON::XS,JSON::PP'
(The default) Use compiled JSON::XS if it is properly compiled &
installed, otherwise use JSON::PP.

PERL_JSON_BACKEND == 2 or PERL_JSON_BACKEND = 'JSON::XS'
Always use compiled JSON::XS, die if it isn't properly compiled & installed.

PERL_JSON_BACKEND = 'JSON::backportPP'
Always use JSON::backportPP. JSON::backportPP is JSON::PP back port module. "JSON" includes JSON::backportPP instead of JSON::PP.

These ideas come from DBI::PurePerl mechanism.

e.g.
BEGIN { $ENV{PERL_JSON_BACKEND} = 'JSON::PP' }
use JSON; # always uses JSON::PP

In future, it may be able to specify another module.

USE PP FEATURES EVEN THOUGH XS BACKEND
Many methods are available with either JSON::XS or JSON::PP and when the backend module is JSON::XS, if any JSON::PP specific (i.e. JSON::XS unsupported) method is called, it will "warn" and be noop.

But if you "use" "JSON" passing the optional string "-support_by_pp", it makes a part of those unsupported methods available. This feature is achieved by using JSON::PP in "de/encode".

BEGIN { $ENV{PERL_JSON_BACKEND} = 2 } # with JSON::XS
use JSON -support_by_pp;
my $json = JSON->new;
$json->allow_nonref->escape_slash->encode("/");

At this time, the returned object is a "JSON::Backend::XS::Supportable" object (re-blessed XS object), and by checking JSON::XS unsupported flags in de/encoding, can support some unsupported methods - "loose", "allow_bignum", "allow_barekey", "allow_singlequote", "escape_slash" and "indent_length".

When any unsupported methods are not enable, "XS de/encode" will be used as is. The switch is achieved by changing the symbolic tables.

"-support_by_pp" is effective only when the backend module is JSON::XS and it makes the de/encoding speed down a bit.

See to "JSON::PP SUPPORT METHODS".

INCOMPATIBLE CHANGES TO OLD VERSION
There are big incompatibility between new version (2.00) and old (1.xx). If you use old "JSON" 1.xx in your code, please check it.

See to "Transition ways from 1.xx to 2.xx."

jsonToObj and objToJson are obsoleted.
Non Perl-style name "jsonToObj" and "objToJson" are obsoleted (but not yet deleted from the source). If you use these functions in your code, please replace them with "from_json" and "to_json".

Global variables are no longer available.
"JSON" class variables - $JSON::AUTOCONVERT, $JSON::BareKey, etc... - are not available any longer. Instead, various features can be used through object methods.

Package JSON::Converter and JSON::Parser are deleted.
Now "JSON" bundles with JSON::PP which can handle JSON more properly than them.

Package JSON::NotString is deleted.
There was "JSON::NotString" class which represents JSON value "true", "false", "null" and numbers. It was deleted and replaced by "JSON::Boolean".

"JSON::Boolean" represents "true" and "false".

"JSON::Boolean" does not represent "null".

"JSON::null" returns "undef".

"JSON" makes JSON::XS::Boolean and JSON::PP::Boolean is-a relation to JSON::Boolean.

function JSON::Number is obsoleted.
"JSON::Number" is now needless because JSON::XS and JSON::PP have round-trip integrity.

JSONRPC modules are deleted.
Perl implementation of JSON-RPC protocol - "JSONRPC ", "JSONRPC::Transport::HTTP" and "Apache::JSONRPC " are deleted in this distribution. Instead of them, there is JSON::RPC which supports JSON-RPC protocol version 1.1.

Transition ways from 1.xx to 2.xx.
You should set "support_by_pp" mode firstly, because it is always successful for the below codes even with JSON::XS.

use JSON -support_by_pp;
Exported jsonToObj (simple)
   from_json($json_text);

Exported objToJson (simple)
   to_json($perl_scalar);

Exported jsonToObj (advanced)
   $flags = {allow_barekey => 1, allow_singlequote => 1};
   from_json($json_text, $flags);

   equivalent to:

   $JSON::BareKey = 1;
   $JSON::QuotApos = 1;
   jsonToObj($json_text);

Exported objToJson (advanced)
   $flags = {allow_blessed => 1, allow_barekey => 1};
   to_json($perl_scalar, $flags);

   equivalent to:

   $JSON::BareKey = 1;
   objToJson($perl_scalar);

jsonToObj as object method
   $json->decode($json_text);

objToJson as object method
   $json->encode($perl_scalar);

new method with parameters
   The "new" method in 2.x takes any parameters no longer. You can set
   parameters instead;

   $json = JSON->new->pretty;

$JSON::Pretty, $JSON::Indent, $JSON::Delimiter
   If "indent" is enable, that means $JSON::Pretty flag set. And
   $JSON::Delimiter was substituted by "space_before" and
   "space_after". In conclusion:

   $json->indent->space_before->space_after;

   Equivalent to:

   $json->pretty;
To change indent length, use "indent_length".

(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->pretty->indent_length(2)->encode($perl_scalar);

$JSON::BareKey
(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->allow_barekey->decode($json_text)

$JSON::ConvBlessed
use "-convert_blessed_universally". See to convert_blessed.

$JSON::QuotApos
(Only with JSON::PP, if "-support_by_pp" is not used.)

$json->allow_singlequote->decode($json_text)

$JSON::SingleQuote
Disable. "JSON" does not make such a invalid JSON string any longer.

$JSON::KeySort
$json->canonical->encode($perl_scalar)

This is the ascii sort.

If you want to use with your own sort routine, check the "sort_by" method.

(Only with JSON::PP, even if "-support_by_pp" is used currently.)

$json->sort_by($sort_routine_ref)->encode($perl_scalar)

$json->sort_by(sub { $JSON::PP::a <=> $JSON::PP::b })->encode($perl_scalar)

Can't access $a and $b but $JSON::PP::a and $JSON::PP::b.

$JSON::SkipInvalid
$json->allow_unknown

$JSON::AUTOCONVERT
Needless. "JSON" backend modules have the round-trip integrity.

$JSON::UTF8
Needless because "JSON" (JSON::XS/JSON::PP) sets the UTF8 flag on properly.
# With UTF8-flagged strings

```perl
$json->allow_nonref;
$str = chr(1000); # UTF8-flagged

$json_text  = $json->utf8(0)->encode($str);
utf8::is_utf8($json_text);
# true
$json_text  = $json->utf8(1)->encode($str);
utf8::is_utf8($json_text);
# false

$str = "" . chr(1000) . ""; # UTF8-flagged

$perl_scalar  = $json->utf8(0)->decode($str);
utf8::is_utf8($perl_scalar);
# true
$perl_scalar  = $json->utf8(1)->decode($str);
# died because of 'Wide character in subroutine'
```

See to "A FEW NOTES ON UNICODE AND PERL" in JSON::XS.

$JSON::UnMapping
Disable. See to MAPPING.

$JSON::SelfConvert
This option was deleted. Instead of it, if a given blessed object has the "TO_JSON" method, "TO_JSON" will be executed with "convert_blessed".

```perl
$json->convert_blessed->encode($blessed_hashref_or_arrayref)
# if need, call allow_blessed
```

Note that it was "toJson" in old version, but now not "toJson" but "TO_JSON".

TODO
exmaple programs

THREADS
No test with JSON::PP. If with JSON::XS, See to "THREADS" in JSON::XS.

BUGS
Please report bugs relevant to "JSON" to <makamaka[at]cpan.org>.

SEE ALSO
Most of the document is copied and modified from JSON::XS doc.
JSON::XS, JSON::PP

"RFC4627"(<http://www.ietf.org/rfc/rfc4627.txt>)

AUTHOR
Makamaka Hannyaharamitu, <makamaka[at]cpan.org>

JSON::XS was written by Marc Lehmann <schmorp[at]schmorp.de>

The release of this new version owes to the courtesy of Marc Lehmann.

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=pod

=head1 NAME

JSON::PP56 - Helper module in using JSON::PP in Perl 5.6

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

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---
abstract: 'JSON (JavaScript Object Notation) encoder/decoder'
author:
- 'Makamaka Hannyaharamitu, E<lt>makamaka[at]cpan.orgE<gt>'
build_requires:
  ExtUtils::MakeMaker: 0
configure_requires:
  ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.130880'
license: perl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: JSON
no_index:
directory:
  - t
  - inc
recommends:
  JSON::XS: 2.34
requires:
  Test::More: 0
resources:
  repository: https://github.com/makamaka/JSON
version: 2.90

Found in path(s):
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=head1 NAME

JSON::PP5005 - Helper module in using JSON::PP in Perl 5.005

=head1 DESCRIPTION

JSON::PP calls internally.

=head1 AUTHOR

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#!/usr/bin/perl

use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp = JSON::PP->new->utf8;
my $xs = JSON::XS->new->utf8;

local $/;

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );

print "------------------------\n";
print "->encode()\n";
print "------------------------\n";
$result = timethese( -$wanttime,
    
    'JSON::PP' => sub { $pp->encode( $perl ) },
    'JSON::XS' => sub { $xs->encode( $perl ) },
},
'none'
);
cmpthese( $result );

print "-----------------------------------
print "->pretty->canonical->encode()\n";
print "-----------------------------------

$pp->pretty->canonical;
$xs->pretty->canonical;

$result = timethese( -$wanttime,
    
    'JSON::PP' => sub { $pp->encode( $perl ) },
    'JSON::XS' => sub { $xs->encode( $perl ) },
},
'none'
);
cmpthese( $result );

print "-----------------------------------

__END__

=pod

=head1 SYNOPSIS

bench_encode.pl json-file
# or
bench_encode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> encoding benchmark.

=head1 AUTHOR

makamaka

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use strict;
use warnings;
use Benchmark qw( cmpthese timethese );

our $VERSION = '1.00';

my $wanttime = $ARGV[1] || 5;

use JSON qw( -support_by_pp -no_export ); # for JSON::PP::Boolean inheritance
use JSON::PP ();
use JSON::XS ();
use utf8;

my $pp   = JSON::PP->new->utf8;
my $xs   = JSON::XS->new->utf8;

local $/

my $json = <>;
my $perl = JSON::XS::decode_json $json;
my $result;

printf( "JSON::PP %s\n", JSON::PP->VERSION );
printf( "JSON::XS %s\n", JSON::XS->VERSION );

print "--------------------------\n";
print "->decode()\n";
print "--------------------------\n";

$result = timethese( -$wanttime,
  { 'JSON::PP' => sub { $pp->decode( $json ) },
    'JSON::XS' => sub { $xs->decode( $json ) },
  },
  'none'
cmpthese( $result );

print "-----------------------------------\n";

__END__

=head1 SYNOPSIS

bench_decode.pl json-file
# or
bench_decode.pl json-file minimum-time

=head1 DESCRIPTION

L<JSON::PP> and L<JSON::XS> decoding benchmark.

=head1 AUTHOR

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1.37 lucene-suggest 9.1.0
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The snowball stemmers in
   analysis/common/src/java/net/sf/snowball
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   analysis/common/src/resources/org/apache/lucene/analysis/snowball
were developed by Martin Porter and Richard Boulton. The full snowball package is available from
   https://snowballstem.org/

The KStem stemmer in
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:
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   analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
   analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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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/fr/FrenchLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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   analysis/common/src/java/org/apache/lucene/analysis/ru/RussianMinimalStemmer.java
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   analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/el/GreekLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/el/GreekMinimalStemmer.java
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   analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/tt/TurkishLightStemmer.java
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   analysis/common/src/java/org/apache/lucene/analysis/eo/EstonianLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/eo/EstonianMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/cy/CatalanLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/cy/CatalanMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/gl/GalicianLightStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/gl/GalicianMinimalStemmer.java
   analysis/common/src/java/org/apache/lucene/analysis/hr/CroatianLightStemmer.java
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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 https://project.carrot2.org/license.html.

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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mecab-ipadic-2.7.0-20070801

which can be obtained from

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Nori Korean Morphological Analyzer - Apache Lucene Integration
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mecab-ko-dic-2.0.3-20170922

which can be obtained from

https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

The floating point precision conversion in NumericUtils.Float16Converter is derived from work by Jeroen van der Zijp, granted for use under the Apache license.

1.38 man-pages 5.05-1
1.38.1 Available under license :

#!/bin/sh
#
# find_dot_no_parens.sh
#
# Look for function names after /^[BIR]/ that aren't
# followed by "()".
#
# This script is designed to help with "by hand" tidy-ups after
# the automated changes made by add_parens_for_own_funcs.sh.
#
# The first argument to this script names a manual page directory where
# 'man2' and 'man3' subdirectories can be found. The pages names in
# these directories are used to generate a series of regular expressions
# that can be used to search the manual page files that are named in
# the remaining command-line arguments.
#
# Example usage:
#
#    cd man-pages-x.yy
#    sh find_dots_no_parens.sh . man?/*.? > matches.log
#
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.49 ubuntu-keyring 2020.02.11.4

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1.50 threetenbp 1.5.1

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1.51 strscan 1.0.3

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1.52 jline 2.14.6

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1.53 go-runewidth 0.0.9

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1.54 errors 0.9.1

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1.55 kubernetes-model-common 5.8.0

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1.56 certifi 2021.10.8

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA).
These were automatically extracted from Mozilla's root certificates file (certdata.txt).
This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used
with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver
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1.57 commons-pool 2.11

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3/6/Lib/lib2to3/fixes/fix_dict.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3/7/Lib/lib2to3/fixes/fix_types.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3/8/Lib/lib2to3/fixes/fix_buffer.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3/6/Lib/lib2to3/fixes/fix_buffer.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.6/Lib/lib2to3/fixes/fix_filter.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.8/Lib/lib2to3/fixes/fix_dict.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5.3.8/Lib/lib2to3/fixes/fix_map.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.0.2.8/Lib/lib2to3/fixes/fix_dict.py

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# A grammar to describe tree matching patterns.
# Not shown here:
#   # 'TOKEN' stands for any token (leaf node)
#   # 'any' stands for any node (leaf or interior)
#   # With 'any' we can still specify the sub-structure.

# The start symbol is 'Matcher'.

Matcher: Alternatives ENDMARKER

Alternatives: Alternative ( Alternatives)*

Alternative: (Unit [ NegatedUnit])+

Unit: [NAME '='] ( STRING [Repeater]
                | NAME [Details] [Repeater]
                | ( Alternatives ) [Repeater]
                | ( Alternatives ]
            )

NegatedUnit: 'not' (STRING | NAME [Details] | ( Alternatives )

Repeater: '*' | '+' | '{' NUMBER [','] NUMBER [']

Details: '<' Alternatives '>

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/dist.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/dist.py

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Modules/_tkinter.c
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Modules/_tkinter.c

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/cygwinccompiler.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_msi.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_wininst.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/command/bdist_msi.py

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarb2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pgen2/driver.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarb2/python3-stdlib-extensions-3.7.5/3.7/Lib/distutils/spawn.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarb2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_repr.py
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('binary-only', None,
"cannot supply both '--source-only' and '--binary-only'")
'LLicense: ' + self.distribution.get_license(),

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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarb2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_tokenize.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.69/0/python3-stdlib-extensions-3.6-9-orig-tarb2/python3-stdlib-extensions-3.7.5/3.8/Lib/distutils/command/bdist_rpm.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/pytree.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.7/Lib/lib2to3/fixes/fix_execfile.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/tokenize.py
* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pytree.py
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* /opt/ws_local/PERMITS_SQL/1016069485_1591897890.690/python3-stdlib-extensions-3-6-9-orig-tar-bz2/python3-stdlib-extensions-3.7.5/3.6/Lib/lib2to3/pgen2/tokenize.py
1.59 mna-redisc 1.3.2
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1.64 oauth2-oidc-sdk 9.3.1

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 */
/**
 * Authorisation code. Client authentication required only for
 * confidential clients.
 */
/**
 * Refresh token. Client authentication required only for confidential
 * clients.
 */
/**
 * Password. Client authentication required only for confidential
 * clients.
 */
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found in path(s):
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/GrantType.java

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 * specific language governing permissions and limitations under the License.
 */
/**
 * OpenID Connect client information. Encapsulates the registration and
 * metadata details of an OpenID Connect client:
 *
 * <ul>
 *     <li>The client identifier.
 *     <li>The client OpenID Connect metadata.
 *     <li>The optional client secret for a confidential client.
 *     <li>The optional registration URI and access token if dynamic client
 *         registration is permitted.
 * </ul>
 *
 * <p>Related specifications:
 *
 * <ul>
 *     <li>OpenID Connect Dynamic Client Registration 1.0.
 *     <li>OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section
 *         3.2.1.
 *     <li>OAuth 2.0 Dynamic Client Registration Management Protocol (RFC
 *         7592), section 3.
 * </ul>
 */

found in path(s):
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformation.java
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* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/META-INF/maven/com.nimbusds/oauth2-oidc-sdk/pom.xml
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* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/validators/BadJWTExceptions.java
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*/
/**
* Creates a new authenticated pushed authorisation request for a
* confidential client.
*
* @param uri          The URI of the token endpoint. May be
*                     { @code null} if the { @link #HTTPRequest}
*                     method will not be used.
* @param clientAuth   The client authentication. Must not be
*                     { @code null}.
* @param authzRequest The authorisation request. Must not be
*                     { @code null}.
*/

Found in path(s):
*/opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
jar/com/nimbusds/oauth2/sdk/PushedAuthorizationRequest.java

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* */
/**
* Creates a new request object POST request where the parameters are
* submitted as plain JSON object, and the client authenticates by
* means of mutual TLS. TLS also ensures the integrity and
* confidentiality of the request parameters. This method is not
* standard.
*
* @param uri          The URI of the request object endpoint. May
*                     be { @code null} if the
*                     { @link #HTTPRequest} method will not be
*                     used.
* @param tlsClientAuth The mutual TLS client authentication. Must
*                     not be { @code null}.
* @param requestJSONObject The request parameters as plain JSON
*                     object. Must not be { @code null}.
*/
Found in path(s):
  */
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTRequest.java
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  */
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/verifier/Context.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/client/ClientUpdateRequest.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/ClientSecretPost.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IDDocumentType.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/OIDCTokenResponseParser.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/ACR.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/jarm/package-info.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/OIDCTokenResponseParser.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/openid/connect/sdk/claims/ACR.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-jar/com/nimbusds/oauth2/sdk/auth/Secret.java
  * /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources-
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jar/com/nimbusds/oauth2/sdk/GeneralException.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/date/SimpleDate.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/id/PairwiseSubjectCodec.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/claims/CommonOIDCTokenClaimsSet.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/id/SectorID.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/AuthorizationResponse.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/client/ClientMetadata.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/id/Subject.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/auth/TLSClientAuthentication.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/pkce/package-info.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/assurance/evidences/QESEvidence.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/auth/JWTAuthenticationClaimsSet.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/AuthorizationCode.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringListConfiguration.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/claims/UserInfo.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/federation/policy/language/StringListOperation.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/assurance/evidences/IDDocumentDescription.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/util/JSONObjectUtils.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/claims/Address.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/op/ACRRequest.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/AbstractOptionallyAuthenticatedRequest.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/UserInfoRequest.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/openid/connect/sdk/claims/ClaimRequirement.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/device/DeviceCode.java
* /opt/cola/permits/1192756271_1629279305.02/oauth2-oidc-sdk-9-3-1-sources-
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 */
/**
 * Token revocation request. Used to revoke an issued access or refresh token.
 *
 * <p>Example token revocation request for a confidential client:
 * */
* POST /revoke HTTP/1.1
* Host: server.example.com
* Content-Type: application/x-www-form-urlencoded
* Authorization: Basic czZCaGRSa3F0MzpWDFmQmF0M2JW
* token=45ghiukldjahdnhzdauz&token_type_hint=refresh_token
* </pre>

* <p>Example token revocation request for a public client:

* POST /revoke HTTP/1.1
* Host: server.example.com
* Content-Type: application/x-www-form-urlencoded
* token=45ghiukldjahdnhzdauz&token_type_hint=refresh_token&client_id=123456
* </pre>

* <p>Related specifications:

* <ul>
* <li>OAuth 2.0 Token Revocation (RFC 7009), section 2.1.
* </ul>
*/
/**
* Creates a new token revocation request for a confidential client.
*
* @param uri The URI of the token revocation endpoint. May be
* @code null} if the @link #toHTTPRequest method
* will not be used.
* @param clientAuth The client authentication. Must not be
* @code null}. 
* @param token The access or refresh token to revoke. Must not be
* @code null}. 
*/
// confidential client

Found in path(s):
* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9-3-1-sources.jar/com/nimbusds/oauth2/sdk/TokenRevocationRequest.java
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  jar/com/nimbusds/oauth2/sdk/ciba/CIBATokenDelivery.java
* /opt/cola/permits/1192756271_1629279305.02/o/oauth2-oidc-sdk-9-3-1-sources-
  jar/com/nimbusds/oauth2/sdk/util/ListUtils.java
* /opt/cola/permits/1192756271_1629279305.02/o/oauth2-oidc-sdk-9-3-1-sources-
  jar/com/nimbusds/oauth2/sdk/ciba/CIBASignedRequestClaimsSet.java
* /opt/cola/permits/1192756271_1629279305.02/o/oauth2-oidc-sdk-9-3-1-sources-
  jar/com/nimbusds/oauth2/sdk/ciba/CIBARequestAcknowledgement.java
* /opt/cola/permits/1192756271_1629279305.02/o/oauth2-oidc-sdk-9-3-1-sources-
  jar/com/nimbusds/oauth2/sdk/ciba/CIBAError.java
* /opt/cola/permits/1192756271_1629279305.02/o/oauth2-oidc-sdk-9-3-1-sources-
  jar/com/nimbusds/oauth2/sdk/ciba/CIBAPingCallback.java
* /opt/cola/permits/1192756271_1629279305.02/o/oauth2-oidc-sdk-9-3-1-sources-
  jar/com/nimbusds/oauth2/sdk/ciba/CIBAErrorDelivery.java
* /opt/cola/permits/1192756271_1629279305.02/o/oauth2-oidc-sdk-9-3-1-sources-
  jar/com/nimbusds/oauth2/sdk/ciba/CIBAPushCallback.java

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/**
* Confidential. Clients capable of maintaining the confidentiality of
* their credentials (e.g., client implemented on a secure server with
* restricted access to the client credentials), or capable of secure
* client authentication using other means.
*/
/**
* Public. Clients incapable of maintaining the confidentiality of their
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* resource owner, such as an installed native application or a web
* browser-based application), and incapable of secure client
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*/

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* /opt/cola/permits/1192756271_1629279305.02/0/oauth2-oidc-sdk-9.3.1-sources-
jar/com/nimbusds/oauth2/sdk/client/ClientType.java
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*/
/**
* Client information. Encapsulates the registration and metadata details of
* an OAuth 2.0 client:
*
* <ul>
* The client identifier.
* The client metadata.
* The optional client secret for a confidential client.
* The optional registration URI and access token if dynamic client registration is permitted.

Related specifications:

- OAuth 2.0 Dynamic Client Registration Protocol (RFC 7591), section 3.2.1.
- OAuth 2.0 Dynamic Client Registration Management Protocol (RFC 7592), section 3.

// The client must be unambiguously public, else it is marked as confidential

---

1.65 backport 3.23.0

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1.66 netty-transport-native-unix-common

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  jar/io/netty/channel/unix/IovArray.java
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  jar/io/netty/channel/unix/package-info.java
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1.68 systemd 232-25+deb9u13

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1.71 opensaml-profile-impl 4.0.1

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Found in path(s):
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1.72 python 3.7.8

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

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

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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<th>Year</th>
<th>Owner</th>
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1.73 python-certifi 2018.1.18-2
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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1# It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.74 jetty-webapp 9.4.35.v20201120
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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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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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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pkgname=spdx-licenses
pkgver=3.1
pkgrel=0
pkgdesc="Various data formats for the SPDX License List"
url="https://spdx.org/"
arch="noarch"
options="!check"
license="unknown"
source="license-list-data-$pkgver.tar.gz::https://github.com/spdx/license-list-data/archive/v$pkgver.tar.gz"
builddir="$srcdir/license-list-data-$pkgver"
subpackages="$pkgname-list"

_types="html json rdfa rdfnt rdfturtle rdfxml template text"

for type in $_types; do
subpackages="$subpackages $pkgname-$type:_subpkg"
done
build() {
  cd "$builddir"
}
package() {


mkdir -p "$pkgdir"
}

__subpkg() {
  local type=${subpkgname/$pkgname-/}
pkgdesc="$pkgdesc ($type)"
install_if="$pkgname"
mkdir -p "$subpkgdir"/usr/share/spdx
cp -r "$builddir"/type "$subpkgdir"/usr/share/spdx/
}

list() {
  pkgdesc="$pkgdesc (licence list)"
mkdir -p "$subpkgdir"/usr/share/spdx
  local i; for i in $builddir/text/*.txt; do
    local license=${i##*/}
    echo ${license%.*} >> "$subpkgdir"/usr/share/spdx/license.lst
  done
}

sha512sums="a07a6be891296ce032962aa3feaf3b1f0e49f5d378b2445d3eb2b27b3a6288695eeea0baec81976c65219
a25339d6944db6fc1127b8d334fc44f0baa90a1574 license-list-data-3.1.tar.gz"
  # Automatically generated by apkbuild-cpan, template 1
  # Contributor: Valery Kartel <valery.kartel@gmail.com>
  # Maintainer: Valery Kartel <valery.kartel@gmail.com>
  pkgname=perl-bsd-resource
  __pkgreal=BSD-Resource
  pkgver=1.2911
  pkgrel=0
  pkgdesc="Perl extension implements the BSD process resource limit functions"
  url="http://search.cpan.org/dist/BSD-Resource/"
  arch="all"
  license="GPL PerlArtistic"
  cpandepends=""
  cpanmakedepends=""
  depends="$cpandepends"
  makedepends="perl-dev $cpanmakedepends"
  subpackages="$pkgname-doc"
  source="http://search.cpan.org/CPAN/authors/id/J/JH/JHI/$__pkgreal-$pkgver.tar.gz"

  builddir="$srcdir/$__pkgreal-$pkgver"

  prepare() {
    default_prepare
    cd "$builddir"
    export CFLAGS="perl -MConfig -E 'say $Config{ccflags}"
    PERL_MM_USE_DEFAULT=1 perl Makefile.PL INSTALLDIRS=vendor

  }
build() {
    cd "Sbuilddir"
    export CFLAGS=\`perl -MConfig -E \'say $Config{ccflags}\'\`
    make
}

check() {
    cd "Sbuilddir"
    make test
}

package() {
    cd "Sbuilddir"
    make DESTDIR="$pkgdir" install
    find "$pkgdir" \(-name perllocal.pod -o -name .packlist \) -delete
}

sha512sums="d0032d41c7c0468ed1c6d8f57b885f6cb97a5039d754c8cb60b2067daedaf53bd15fb6561a3d0f828df16
dfa5417f663b8065ba65f4fefa16dc9262728b3b6b85  BSD-Resource-1.2911.tar.gz"
# Contributor: Fabian Affolter <fabian@affolter-engineering.ch>
# Maintainer: Fabian Affolter <fabian@affolter-engineering.ch>
pkgname=py-flake8-copyright
_pkpkgname=flake8-copyright
pkgver=0.2.0
pkgrel=1
pkgdesc="Extension for flake8 which checks for copyrights"
url="https://github.com/savoirfairelinux/flake8-copyright"
arch="noarch"
license="MIT"
depends="flake8"
makedepends="python3-dev"
source="https://files.pythonhosted.org/packages/source/${_pkgname:0:1}/${_pkgname}/${_pkgname}-${pkgver}.tar.gz"
builddir="$srcdir"/${_pkgname}-${pkgver}

build() {
    cd "Sbuilddir"
    python3 setup.py build || return 1
}

package() {
    cd "Sbuilddir"
    python3 setup.py install --prefix=/usr --root="$pkgdir" || return 1
}

md5sums="c6348990c6d749333bf5d5f6a55a14bdf  flake8-copyright-0.2.0.tar.gz"
sha256sums="aeef26eb4d5223c9cd5b101e68175fcef6d2b353bf36da688fdde62fccfe2b73  flake8-copyright-
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# Maintainer: Natanael Copa <ncopa@alpinelinux.org>
pkgnamelibart-lgpl
pkgver=2.3.21
pkgrel=5
pkgdesc="A library for high-performance 2D graphics"
url="http://www.levien.com/libart/"
arch="all"
options="!check" # No test suite.
license="LGPL-2.0+
depends=
makedepends=

subpackages="\$pkgname-dev"
source="https://download.gnome.org/sources/libart_lgpl/2.3/libart_lgpl-$pkgver.tar.bz2"

builddir="\$srcdir"/libart_lgpl-$pkgver

prepare() {
  cd "\$builddir"
  update_config_sub
  default_prepare
}

build() {
  cd "\$builddir"
  ./configure \
    --build=$CBUILD \ 
    --host=$CHOST \ 
    --prefix=/usr
  make
}

package() {
  cd "\$builddir"
  make DESTDIR="\$pkgdir" install
}

sha512sums="8a632a6a4da59e5e8c02ec2f5a57e36d182b325b46513765425e5f171f9ae326af1b133725beba28f7e76654309e001ae9bace727b5b4c8589405256a3c020  libart_lgpl-2.3.21.tar.bz2"

mini_sendmail - accept email on behalf of real sendmail

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1.78 faraday-net_http_persistent 1.2.0

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1.79 go-openapi-jsonreference 0.19.5

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
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If you think you name is missing, please add it (alpha order by first name)
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db-standby.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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# SOFTWARE.

libfreedreno_layout = static_library(
    'freedreno_layout',
    [  
        'fd5_layout.c',  
        'fd6_layout.c',  
        'freedreno_layout.c',  
    ],
    include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
    c_args : [no_override_init_args],
    gnu_symbol_visibility : 'hidden',
    dependencies : [idep_nir_headers, idep_mesautil],
    build_by_default : false,
)

foreach major : ['5', '6']
    test(  
        'fd' + major + '_layout',
        executable(  
            'fd' + major + '_layout',
            [  
                'fd_layout_test.c',  
                'fd' + major + '_layout_test.c',  
                freedreno_xml_header_files,  
            ],
            link_with: libfreedreno_layout,
            dependencies : idep_mesautil,
            include_directories: [  
                inc_include,  
                inc_src,  
                inc_mapi,  
                inc_mesa,  
                inc_gallium,  
                inc_gallium_aux,  
                inc_freedreno,  
            ],
            suite : ['freedreno'],
        )
    )
endforeach

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1.87 jackson-annotations 2.13.1
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1.89 zookeeper-jute 3.6.3
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 */

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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/META-
INF/maven/org.apache.zookeeper/zookeeper-jute/pom.xml

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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JavaGenerator.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JLong.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JCompType.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JFloat.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/Utils.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/CGenerator.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JMap.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JVector.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/RecordReader.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/BinaryInputArchive.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/BinaryOutputArchive.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JMap.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/JVector.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/Record.java

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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/Token.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/RccConstants.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/jute/compiler/generated/SimpleCharStream.java

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* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/SetSASLResponse.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/ErrorTxn.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/txn/txn/txn/txn.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/CreateTTLRequest.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/GetMaxChildrenResponse.java
jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetChildrenRequest.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/CheckVersionRequest.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar/org/apache/zookeeper/proto/ExistsRequest.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/AuthPacket.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/GetAllChildrenNumberRequest.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/CheckVersionTxn.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/Create2Response.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/SetWatches2.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/SyncRequest.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/CreateTxnV0.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/CreateTxn.java
* /opt/cola/permits/1204625930_1631958758.34/0/zookeeper-jute-3-6-3-sources-jar.org/apache/zookeeper/proto/CreateTTLTxn.java

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```java
options {
  STATIC=false;
}

PARSER_BEGIN(Rcc)
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 */

package org.apache.jute.compiler.generated;

import org.apache.jute.compiler.*;
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;
@SuppressWarnings("unused")
public class Rcc {
  private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
  private static String curDir = System.getProperty("user.dir");
```
private static String curFileName;
private static String curModuleName;

public static void main(String args[]) {
    String language = "java";
    ArrayList<String> recFiles = new ArrayList<String>();
    JFile curFile = null;

    for (int i=0; i<args.length; i++) {
        if ("-l".equalsIgnoreCase(args[i]) ||
            "--language".equalsIgnoreCase(args[i])) {
            language = args[i+1].toLowerCase();
            i++;
        } else {
            recFiles.add(args[i]);
        }
    }

    if (!"c++".equals(language) && !"java".equals(language) && !"c".equals(language)) {
        System.out.println("Cannot recognize language:" + language);
        System.exit(1);
    }

    if (recFiles.size() == 0) {
        System.out.println("No record files specified. Exiting.");
        System.exit(1);
    }

    for (int i=0; i<recFiles.size(); i++) {
        curFileName = recFiles.get(i);
        File file = new File(curFileName);
        try {
            curFile = parseFile(file);
        } catch (FileNotFoundException e) {
            System.out.println("File " + recFiles.get(i) + ", Not found.");
            System.exit(1);
        } catch (ParseException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
        System.out.println(recFiles.get(i) + " Parsed Successfully");
        try {
            curFile.genCode(language, new File("."));
        } catch (IOException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
    }
}

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
curDir = file.getParent();
curFileName = file.getName();
FileReader reader = new FileReader(file);
try {
    Rcc parser = new Rcc(reader);
    recTab = new Hashtable<String, JRecord>();
    return parser.Input();
} finally {
    try {
        reader.close();
    } catch (IOException e) {
    }
}
"*/" : DEFAULT

<WithinMultiLineComment> MORE :
{
 <-[[]>
}

TOKEN :
{
   <MODULE_TKN: "module">
   | <RECORD_TKN: "class">
   | <INCLUDE_TKN: "include">
   | <BYTE_TKN: "byte">
   | <BOOLEAN_TKN: "boolean">
   | <INT_TKN: "int">
   | <LONG_TKN: "long">
   | <FLOAT_TKN: "float">
   | <DOUBLE_TKN: "double">
   | <USTRING_TKN: "ustring">
   | <BUFFER_TKN: "buffer">
   | <VECTOR_TKN: "vector">
   | <MAP_TKN: "map">
   | <LBRACE_TKN: "{
   | <RBRACE_TKN: "}">
   | <LT_TKN: "<">
   | <GT_TKN: ">
   | <SEMICOLON_TKN: ";">
   | <COMMA_TKN: ",">
   | <DOT_TKN: ".">
   | <CSTRING_TKN: "\" ( ~\[\"]\+ \"">
   | <IDENT_TKN: [A-Za-z,A-Za-z,0-9,\_]+*>
}

JFile Input() :
{
   ArrayList<JFile> ilist = new ArrayList<JFile>();
   ArrayList<JRecord> rlist = new ArrayList<JRecord>();
   JFile i;
   ArrayList <JRecord>i;
}
{
   (i = Include()
   { ilist.add(i); } |
   l = Module()
   { rlist.addAll(l); }
}+
JFile Include() :
{
    String fname;
    Token t;
}
{
    <INCLUDE_TKN>
    t = <CSTRING_TKN>
    }
    JFile ret = null;
    fname = t.image.replaceAll("^\"", "").replaceAll("\"$", ");
    File file = new File(curDir, fname);
    String tmpDir = curDir;
    String tmpFile = curFileName;
    curDir = file.getParent();
    curFileName = file.getName();
    try {
        FileReader reader = new FileReader(file);
        Rcc parser = new Rcc(reader);
        try {
            ret = parser.Input();
            System.out.println(fname + " Parsed Successfully");
        } catch (ParseException e) {
            System.out.println(e.toString());
            System.exit(1);
        }
        try {
            reader.close();
        } catch (IOException e) {
        }
    } catch (FileNotFoundException e) {
        System.out.println("File " + fname + " Not found.");
        System.exit(1);
    }
    curDir = tmpDir;
    curFileName = tmpFile;
    return ret;
}
}

ArrayList<JRecord> Module() :
{
    String mName;
}
ArrayList<JRecord> rlist;
{
    <MODULE_TKN>
    mName = ModuleName()
    { curModuleName = mName; }
    <LBRACE_TKN>
    rlist = RecordList()
    <RBRACE_TKN>
    { return rlist; }
}

String ModuleName() :
{
    String name = ";
    Token t;
}
{
    t = <IDENT_TKN>
    { name += t.image; }
    ( <DOT_TKN>
    t = <IDENT_TKN>
    { name += "." + t.image; }
    )* 
    { return name; }
}

ArrayList<JRecord> RecordList() :
{
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JRecord r;
}
{
    ( r = Record()
        { rlist.add(r); } 
    )* 
    { return rlist; }
}

JRecord Record() :
{
    String rname;
    ArrayList<JField> flist = new ArrayList<JField>();
    Token t;
    JField f;
}
JField Field() :
{
    JType jt;
    Token t;
}
{
    jt = Type()
    t = <IDENT_TKN>
    { return new JField(jt, t.image); } }

JType Type() :
{
    JType jt;
    Token t;
    String rname;
}
{
    jt = Map()
    { return jt; }
    jt = Vector()
    { return jt; }
    <BYTE_TKN>
    { return new JByte(); }
    <BOOLEAN_TKN>
    { return new JBoolean(); }
    <INT_TKN>
    { return new JInt(); }
    <LONG_TKN>
{ return new JLong(); }
| <FLOAT_TKN>
{ return new JFloat(); }
| <DOUBLE_TKN>
{ return new JDouble(); }
| <USTRING_TKN>
{ return new JString(); }
| <BUFFER_TKN>
{ return new JBuffer(); }

rname = ModuleName()
{
    if (rname.indexOf('.', 0) < 0) {
        rname = curModuleName + "." + rname;
    }
    JRecord r = recTab.get(rname);
    if (r == null) {
        System.out.println("Type "+rname+" not known. Exiting.");
        System.exit(1);
    }
    return r;
}

JMap Map() :
{
    JType jt1;
    JType jt2;
}
|
<MAP_TKN>
<LT_TKN>
jt1 = Type()
<COMMA_TKN>
jt2 = Type()
<GT_TKN>
{ return new JMap(jt1, jt2); }
}

JVector Vector() :
{
    JType jt;
}
|
<VECTOR_TKN>
<LT_TKN>
jt = Type()
<GT_TKN>
{ return new JVector(jt); }
1.90 python-setuptools 3.10.0-2.ph4

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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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<th>Year</th>
<th>Owner</th>
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analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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1.103 lockfile 0.12.2-4.ph4

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1.105 py3-idna 2.9-r0
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---

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',
        '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.*, !=3.4.*, !=3.5.*, !=3.6.*, !=3.7.*, !=3.8.*',
    'test_suite': 'tests',
}

setup(**arguments)

if __name__ == '__main__':
    main()

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1048322310_1600402643.89/0/idna-2-9-2-9/setup.py

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* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
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* /opt/cola/permits/1267543732_1644318309.15/0/netty-handler-4-1-73-final-sources.jar/io/netty/handler/util/ThreadLocalInsecureRandom.java
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##############################################################################
## Constant-time SSSE3 AES core implementation.
## version 0.1
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1.111 aws-java-sdk-s3 1.11.749

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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/analytics/AnalyticsPrefixPredicate.java
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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/CopyResult.java
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jar/com/amazonaws/services/s3/model/BucketTaggingConfiguration.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
jar/com/amazonaws/services/s3/internal/RepeatableFileInputStream.java
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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
jar/com/amazonaws/services/s3/model/HeadBucketResult.java
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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/transform/ProgressStaxUnmarshaller.java

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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/SetObjectLegalHoldRequest.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/SetObjectLegalHoldResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/GetObjectLockConfigurationResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/SetObjectLegalHoldRequest.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/SetObjectRetentionRequest.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/SetObjectRetentionResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/ObjectLockConfiguration.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/ObjectLockRule.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/ObjectLockEnabled.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/ObjectLockRule.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/ObjectLockRule.java

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jar/com/amazonaws/services/s3/model/transform/ObjectLockLegalHoldXmlFactory.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/PresignedUrlUploadRequest.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/RequestProgress.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/JSONOutput.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/GetObjectLegalHoldResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/ObjectLockMode.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/transfer/internal/AbstractDownloadCallable.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/SelectObjectContentEventVisitor.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/SetObjectLockConfigurationRequest.java

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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/iterable/S3Versions.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/transfer/Download.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/iterable/S3Objects.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/transfer/internal/DownloadImpl.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/StaticEncryptionMaterialsProvider.java

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

Found in path(s):
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/ListVersionsRequest.java
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  jar/com/amazonaws/services/s3/transfer/ObjectCannedAclProvider.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/transfer/internal/PreparedDownloadContext.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/internal/S3AccessPointBuilder.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/ScanRange.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/GetObjectTaggingResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/ObjectTagging.java

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  jar/com/amazonaws/services/s3/model/SetObjectTaggingRequest.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/S3VersionResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/GetObjectTaggingResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/ObjectTagging.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/DeleteObjectTaggingHeaderHandler.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/DeleteObjectTaggingRequest.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/ObjectTagging.java
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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/GetObjectAclRequest.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/Transformer.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/ObjectTaggingXmlFactory.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/GetObjectTaggingResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/BucketAccelerateStatus.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/transform/ObjectTaggingXmlFactory.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/RequestUserPayerCharge.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/DeleteObjectTaggingResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/S3AccelerateUnsupported.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/GetObjectTaggingRequest.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/model/GetObjectAclRequest.java

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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/AmazonS3EncryptionClientParams.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/AmazonS3EncryptionClientParamsWrapper.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/transfer/KeyFilter.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-jar/com/amazonaws/services/s3/AmazonS3EncryptionClientBuilder.java

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

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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/EncryptionMaterialsProvider.java
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  jar/com/amazonaws/services/s3/transfer/PauseResult.java
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  jar/com/amazonaws/services/s3/internal/S3RequesterChargedResult.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/AbortIncompleteMultipartUpload.java

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*/
/**
* Synchronous client for accessing Amazon S3.
* 
* <h1>Appendix: Amazon S3 client-side encryption meta information</h1>
* 
* <p>
* This appendix summarizes the current crypto related meta information
* associated with an S3 object encrypted using SDK client-side encryption. In
* SDK's terminology, these meta information are classified as "user metadata".
* In general, the meta information is just a map of key/value pairs. Physically
* they are persisted either as metadata of the encrypted S3 object, or as a
* separate S3 object called an "instruction file" (which is just a JSON file in
* plaintext.) For all references to the Cipher Algorithm Names, Modes, and Padding,
* such as "AES/CBC/PKCS5Padding", please refer to Oracle's
* href="http://docs.oracle.com/javase/7/docs/technotes/guides/security/StandardNames.html"
* >Java&trade; Cryptography Architecture Standard Algorithm Name Documentation</a>
*/
* for more details.

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

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

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

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

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

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

* <table border="1">
  * <tr align="left">
    * <th>key</th>
    * <th>description</th>
  * </tr>
  * <tr>
    * <td width="200"><b>x-amz-key</b></td>
    * <td>Content encrypting key (cek) in encrypted form, base64 encoded. The cek is randomly generated per S3 object, and is always an AES 256-bit key. The corresponding cipher is always "AES/CBC/PKCS5Padding".</td>
  * </tr>
  * <tr>
    * <td><b>x-amz-iv</b></td>
    * <td>Randomly generated IV (per S3 object), base64 encoded</td>
  * </tr>
  * <tr>
    * <td><b>x-amz-matdesc </b></td>
    * <td>Customer provided material description in JSON (UTF8) format. Used to identify the client-side master key (ie used to encrypt/wrap the generated content encrypting key).</td>
  * </tr>
  * <tr>
    * <td><b>x-amz-unencrypted-content-length</b></td>
    * <td>Unencrypted content length (optional but should be specified whenever
This v2 crypto meta information is used to support both authenticated encryption (which involves the use of `<code>AES/GCM/NoPadding</code>` for content encryption, and key wrapping for the one-time randomly generated data key), and KMS client-side encryption (which can either be encryption-only or authenticated encryption.)

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

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

Supported values:
* `<code>AESWrap", "RSA/ECB/OAEPWithSHA-256AndMGF1Padding", "kms"</code>`
* `<li>No standard key wrapping is used if this meta information is absent</li>`
* `<li>Always set to `<b>"kms"</b>` if KMS is used for client-side encryption</li>`
  * `<ul>`
  * `<li>`
  * `<td><b>x-amz-cek-alg</b></td>`
  * `<td>`Content encryption algorithm used.<br>`
  * `<ul>`
  * `<li>`Supported values:<br>  * `<code>AES/GCM/NoPadding", "AES/CBC/PKCS5Padding"</code>`<br>`
  * `<li>`Default to `<code>AES/CBC/PKCS5Padding"</code>` if this key is absent.<br>`
  * `<ul>`
  * `<li>`Tag length (in bits) when AEAD is in use.<br>`
  * `<ul>`
  * `<li>`Only applicable if AEAD is in use. This meta information is absent<br>`
  * `<li>`Supported value: `<code>"128"</code>`<br>`
  * `<ul>`
  * `<li>`KMS Integration for client-side encryption</li>`
  * `<ol>`
  * `<li>All client-side KMS protected S3 objects are stored in v2 crypto meta information<br>`
  * `<li>`The KMS Customer Master Key ID is currently stored as part of the<br>`
  * `<li>`material description, `<b>x-amz-matdesc</b>`<br>`
  * `<li>`KMS Integration for client-side encryption</li>`
  * `<p>`
  * `<h3>KMS Integration for client-side encryption</h3>`
  * `<ol>`
  * `<li>`All client-side KMS protected S3 objects are stored in v2 crypto meta information<br>`
  * `<li>`The KMS Customer Master Key ID is currently stored as part of the<br>`
  * `<li>`material description, `<b>x-amz-matdesc</b>`<br>`
  * `<pre>`
  * `<h4>Sample S3 crypto meta information for KMS client-side encryption</h4>`
  * `<p>`
  * `<h5>CryptoMode: Encryption Only</h5>`
  * `<pre>`
  * `<x-amz-meta-x-amz-key-v2:`
  * CiAJ2GqwpJRnt4izuwao1C2YdNRNSMEslG5rw3pEIJ8h8kAEBw4CdhqsKSUZ7es708KgpQtmHTUTUjBLJRua8N6RCPitIAAAAB+MHwGCSqGSIb3DSHEBqBvMG0CAQAwAYJKoZIhvcNAQcBMBB4GCSwGCSAFlAwQBLjARBAyD0rzN3KHViWixDVcCARCAOwhZ6x8rob3Z0mN3uKl1eHKVylIc/PKICuALvGlOVLnf86m
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cZJNpTXtwMkKkDocVj3lzGjZTuFpsOH
* x-amz-iv: xqOHh+M6y0UogwG5SHJM3Q==
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/CBC/PKCS5Padding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cmk_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* </pre>
* 
* <h5>CryptoMode: Authenticated Encryption</h5>
* 
* <pre>
* x-amz-key-v2:
CiAJ2GqwJRnt4izujoowalC2YdNRMSEsIG5rw3pEI+J8hKnAQEBAwB4CdhsKSUZ7eIs7o8KGpQtmHTUTUj
BLJRua8N6RCPlfIABA+B+HtwGCQqGiib3DQEHBqBvMG0CAQAwAAYJKoZIhvNAQcMBM4GCMGSAFl
AwQBLjARBAYtFVyw4h6QmwcPK1ECAWCAO1Vzom6Xa9DHvNMmv/BEbbjle2vLA7lY7f9OkoSqrdxgKxp
NID9QaL/7928m1Djtld0bJpHefjm89C
* x-amz-iv: VZBksyij6DhrUMye
* x-amz-unencrypted-content-length: 32768
* x-amz-cek-alg: AES/GCM/NoPadding
* x-amz-wrap-alg: kms
* x-amz-matdesc: {"kms_cmk_id":"d3fd2273-4ca0-4da5-b1c2-c89742ec6a26"}
* x-amz-tag-len: 128
* </pre>
* 
* <h2>S3 metadata of an instruction file</h2>
* 
The following key is always included as part of the S3 metadata of the
* instruction file (which is just an S3 object). Since the SDK treats this key
* as "user metadata", the key name is always prefixed with <b>x-amz-meta-</b>
* when physically stored.
* 
* <p>
* <table border="1">
* <tr aligned="left">
* <th>key</th>
* <th>description</th>
* </tr>
* <tr>
* <td width="200"><b>x-amz-crypto-instr-file</b></td>
* <td>the presence of this key is used to indicate this S3 object is an
* instruction file (of an associated client-side encrypted S3 object).</td>
* </tr>
* </table>
* 
* Found in path(s):
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
* jar/com/amazonaws/services/s3/package-info.java
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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/transfer/internal/CopyMonitor.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/transfer/internal/UploadMonitor.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/MultiObjectDeleteException.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-

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* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
  jar/com/amazonaws/services/s3/model/MultiObjectDeleteException.java
* /opt/cola/permits/1154589752_1618867891.3/0/aws-java-sdk-s3-1-11-749-sources-1-
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* /opt/cola/permits/1154589752_1618867891.3/aws-java-sdk-s3-1-11-749-sources-1.jar/com/amazonaws/services/s3/internal/ServerSideEncryptionHeaderHandler.java
* /opt/cola/permits/1154589752_1618867891.3/aws-java-sdk-s3-1-11-749-sources-1.jar/com/amazonaws/services/s3/internal/ObjectExpirationResult.java
* /opt/cola/permits/1154589752_1618867891.3/aws-java-sdk-s3-1-11-749-sources-1.jar/com/amazonaws/services/s3/internal/ObjectRestoreResult.java
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* /opt/cola/permits/1154589752_1618867891.3/aws-java-sdk-s3-1-11-749-sources-1.jar/com/amazonaws/services/s3/model/CopyPartRequest.java
* /opt/cola/permits/1154589752_1618867891.3/aws-java-sdk-s3-1-11-749-sources-1.jar/com/amazonaws/services/s3/model/CORSRule.java
* /opt/cola/permits/1154589752_1618867891.3/aws-java-sdk-s3-1-11-749-sources-1.jar/com/amazonaws/services/s3/model/CopyPartResult.java
* /opt/cola/permits/1154589752_1618867891.3/aws-java-sdk-s3-1-11-749-sources-1.jar/com/amazonaws/services/s3/model/GenericBucketRequest.java
* /opt/cola/permits/1154589752_1618867891.3/aws-java-sdk-s3-1-11-749-sources-1.jar/com/amazonaws/services/s3/model/DeleteObjectsResponse.java
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* /opt/cola/permits/1154589752_1618867891.3/aws-java-sdk-s3-1-11-749-sources-1.jar/com/amazonaws/services/s3/model/GenericBucketRequest.java

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1.114 logfmt 0.5.1

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1.118 xml-apis 1.4.01

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1.119 logstash-codec-fluent 3.4.1

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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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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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

1.121 py3-colorama 0.4.3-r0

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1.127 gofrs-flock 0.8.1

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1.128 rubyzip 1.3.0
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#!/usr/bin/env ruby

$VERBOSE = true

require 'rubyunit'
require 'zip'
include Zip

Dir.chdir "test"

class AbstractInputStreamTest < RUNIT::TestCase
  # AbstractInputStream subclass that provides a read method
  
  TEST_LINES = ['Hello world$/', "this is the second line$/", "this is the last line"]
  TEST_STRING = TEST_LINES.join
  class TestAbstractInputStream
    include AbstractInputStream
    def initialize(aString)
      @contents = aString
      @readPointer = 0
    end
    
    def read(charsToRead)
      retVal=@contents[@readPointer, charsToRead]
      @readPointer+=charsToRead
      return retVal
    end
    
    def produceInput
      read(100)
    end
    
    def inputFinished?
      @contents[@readPointer] == nil
    end
  end
  
  def setup
    @io = TestAbstractInputStream.new(TEST_STRING)
  end
end
def test_gets
  assert_equal(TEST_LINES[0], @io.gets)
  assert_equal(TEST_LINES[1], @io.gets)
  assert_equal(TEST_LINES[2], @io.gets)
  assert_equal(nil, @io.gets)
end

def test_getsMultiCharSeperator
  assert_equal("Hello", @io.gets("\n"))
  assert_equal("Hello world#$\/this is the second line", @io.gets("\d l"))
end

def test_each_line
  lineNumber = 0
  @io.each_line do |line|
    assert_equal(TEST_LINES[lineNumber], line)
    lineNumber += 1
  end
end

def test_readlines
  assert_equal(TEST_LINES, @io.readlines)
end

def test_readline
  test_gets
  begin
    @io.readline
    fail "EOFError expected"
  rescue EOFError
  end
  end
end

class ZipEntryTest < RUNIT::TestCase
  TEST_ZIPFILE = "someZipFile.zip"
  TEST_COMMENT = "a comment"
  TEST_COMPRESSED_SIZE = 1234
  TEST_CRC = 325324
  TEST_EXTRA = "Some data here"
  TEST_COMPRESSIONMETHOD = ZipEntry::DEFLATED
  TEST_NAME = "entry name"
  TEST_SIZE = 8432
  TEST_ISDIRECTORY = false
end
def test_constructorAndGetters
    entry = ZipEntry.new(TEST_ZIPFILE,
    TEST_NAME,
    TEST_COMMENT,
    TEST_EXTRA,
    TEST_COMPRESSED_SIZE,
    TEST_CRC,
    TEST_COMPRESSIONMETHOD,
    TEST_SIZE)

    assert_equals(TEST_COMMENT, entry.comment)
    assert_equals(TEST_COMPRESSED_SIZE, entry.compressedSize)
    assert_equals(TEST_CRC, entry.crc)
    assert_equals(TEST_EXTRA, entry.extra)
    assert_equals(TEST_COMPRESSIONMETHOD, entry.compressionMethod)
    assert_equals(TEST_NAME, entry.name)
    assert_equals(TEST_SIZE, entry.size)
    assert_equals(TEST_ISDIRECTORY, entry.isDirectory)
end

def test_equality
    entry1 = ZipEntry.new("file.zip", "name", "isNotCompared",
    "something extra", 123, 1234,
    ZipEntry::DEFLATED, 10000)
    entry2 = ZipEntry.new("file.zip", "name", "isNotComparedXXX",
    "something extra", 123, 1234,
    ZipEntry::DEFLATED, 10000)
    entry3 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX",
    "something extra", 123, 1234,
    ZipEntry::DEFLATED, 10000)
    entry4 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX",
    "something extraXX", 123, 1234,
    ZipEntry::DEFLATED, 10000)
    entry5 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX",
    "something extraXX", 12, 1234,
    ZipEntry::DEFLATED, 10000)
    entry6 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX",
    "something extraXX", 12, 123,
    ZipEntry::DEFLATED, 10000)
    entry7 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX",
    "something extraXX", 12, 123,
    ZipEntry::STORED, 10000)
    entry8 = ZipEntry.new("file.zip", "name2", "isNotComparedXXX",
    "something extraXX", 12, 123,
    ZipEntry::STORED, 10000)

    assert_equals(entry1, entry1)
    assert_equals(entry1, entry2)
    assert_equals(entry2, entry3)
    assert_equals(entry2, entry4)
    assert_equals(entry2, entry5)
    assert_equals(entry2, entry6)
    assert_equals(entry2, entry7)
    assert_equals(entry2, entry8)
end
assert(entry2 != entry3)
assert(entry3 != entry4)
assert(entry4 != entry5)
assert(entry5 != entry6)
assert(entry6 != entry7)
assert(entry7 != entry8)

assert(entry7 != "hello")
assert(entry7 != 12)
end
end

module IOizeString
attr_reader :tell

def read(count = nil)
  @tell ||= 0
  count = size unless count
  retVal = slice(@tell, count)
  @tell += count
  return retVal
end

def seek(index, offset)
  @tell ||= 0
  case offset
  when IO::SEEK_END
    newPos = size + index
  when IO::SEEK_SET
    newPos = index
  when IO::SEEK_CUR
    newPos = @tell + index
  else
    raise "Error in test method IOizeString::seek"
  end
  if (newPos < 0 || newPos >= size)
    raise Errno::EINVAL
  else
    @tell = newPos
  end
end

def reset
  @tell = 0
end
end
class ZipLocalEntryTest < RUNIT::TestCase
  def test_readLocalEntryHeaderOfFirstTestZipEntry
    File.open(TestZipFile::TEST_ZIP3.zipName) { |file|
      entry = ZipEntry.readLocalEntry(file)

      assert_equal("", entry.comment)
      # Differs from windows and unix because of CR LF
      # assert_equal(480, entry.compressedSize)
      # assert_equal(0x2a27930f, entry.crc)
      # extra field is 21 bytes long
      # probably contains some unix attrutes or something
      # disabled: assert_equal(nil, entry.extra)
      assert_equal(ZipEntry::DEFLATED, entry.compressionMethod)
      assert_equal(TestZipFile::TEST_ZIP3.entryNames[0], entry.name)
      assert_equal(File.size(TestZipFile::TEST_ZIP3.entryNames[0]), entry.size)
      assert(! entry.isDirectory)
    }
  end

  def test_readLocalEntryFromNonZipFile
    File.open("ziptest.rb") { |file|
      assert_equal(nil, ZipEntry.readLocalEntry(file))
    }
  end

  def test_readLocalEntryFromTruncatedZipFile
    zipFragment=""
    File.open(TestZipFile::TEST_ZIP2.zipName) { |f| zipFragment = f.read(12) } # local header is at least 30 bytes
    zipFragment.extend(IO::String).reset
    entry = ZipEntry.new
    entry.readLocalEntry(zipFragment)
    fail "ZipError expected"
  end

  def test_writeEntry
    entry = ZipEntry.new("file.zip", "entryName", "my little comment",
    "thisIsSomeExtraInformation", 100, 987654,
    ZipEntry::DEFLATED, 400)
    writeToFile("localEntryHeader.bin", "centralEntryHeader.bin", entry)
    entryReadLocal, entryReadCentral = readFromFile("localEntryHeader.bin", "centralEntryHeader.bin")
    compareLocalEntryHeaders(entry, entryReadLocal)
    compareCDirEntryHeaders(entry, entryReadCentral)
  end

private
def compareLocalEntryHeaders(entry1, entry2):
    assert_equal(entry1.compressedSize, entry2.compressedSize)
    assert_equal(entry1.crc, entry2.crc)
    assert_equal(entry1.extra, entry2.extra)
    assert_equal(entry1.compressionMethod, entry2.compressionMethod)
    assert_equal(entry1.name, entry2.name)
    assert_equal(entry1.size, entry2.size)
    assert_equal(entry1.localHeaderOffset, entry2.localHeaderOffset)
end

def compareCDirEntryHeaders(entry1, entry2):
    compareLocalEntryHeaders(entry1, entry2)
    assert_equal(entry1.comment, entry2.comment)
end

def writeToFile(localFileName, centralFileName, entry):
    File.open(localFileName, "wb") { |f| entry.writeLocalEntry(f) }
    File.open(centralFileName, "wb") { |f| entry.writeCDirEntry(f) }
end

def readFromFile(localFileName, centralFileName):
    localEntry = nil
    cdirEntry = nil
    File.open(localFileName, "rb") { |f| localEntry = ZipEntry.readLocalEntry(f) }
    File.open(centralFileName, "rb") { |f| cdirEntry = ZipEntry.readCDirEntry(f) }
    return [localEntry, cdirEntry]
end

module DecompressorTests
# expects @refText and @decompressor

def test_readEverything
    assert_equal(@refText, @decompressor.read)
end

def test_readInChunks
    chunkSize = 5
    while (decompressedChunk = @decompressor.read(chunkSize))
        assert_equal(@refText.slice!(0, chunkSize), decompressedChunk)
    end
    assert_equal(0, @refText.size)
end

class InflaterTest < RUNIT::TestCase
    include DecompressorTests
def setup
  @file = File.new("file1.txt.deflatedData", "rb")
  @refText=""
  File.open("file1.txt") { |f| @refText = f.read }
  @decompressor = Inflater.new(@file)
end

def teardown
  @file.close
end
end

class PassThruDecompressorTest < RUNIT::TestCase
  include DecompressorTests
  TEST_FILE="file1.txt"
  def setup
    @file = File.new(TEST_FILE)
    @refText=""
    File.open(TEST_FILE) { |f| @refText = f.read }
    @decompressor = PassThruDecompressor.new(@file, File.size(TEST_FILE))
  end
  def teardown
    @file.close
  end
end

module AssertEntry
  def assertNextEntry(filename, zis)
    assertEntry(filename, zis, zis.getNextEntry.name)
  end
end

def assertEntry(filename, zis, entryName)
  assert_equal(filename, entryName)
  assertEntryContentsForStream(filename, zis, entryName)
end

def assertEntryContentsForStream(filename, zis, entryName)
  File.open(filename, "rb") { |file|
    expected = file.read
    actual   = zis.read
    if (expected != actual)
      if (expected.length > 400 || actual.length > 400)
        zipEntryFilename=entryName+.zipEntry
      end
    end
  end
end
File.open(zipEntryFilename, "wb") { |file| file << actual }
fail('File '#{filename}' is different from '#{zipEntryFilename}''
else
  assert_equals(expected, actual)
end
end

def AssertEntry.assertContents(filename, aString)
  fileContents = ""
  File.open(filename, "rb") { |f| fileContents = f.read }
  if (fileContents != aString)
    if (expected.length > 400 || actual.length > 400)
      stringFile = filename + ".other"
      File.open(stringFile, "wb") { |f| f << aString }
      fail("File '#{filename}' is different from contents of string stored in '#{stringFile}''
    else
      assert_equals(expected, actual)
  end
end
end

def assertStreamContents(zis, testZipFile)
  assert(zis != nil)
  testZipFile.entryNames.each { |entryName|
    assertNextEntry(entryName, zis)
  }
  assert_equals(nil, zis.getNextEntry)
end

def assertTestZipContents(testZipFile)
  ZipInputStream.open(testZipFile.zipName) { |zis|
    assertStreamContents(zis, testZipFile)
  }
end

def assertEntryContents(zipFile, entryName, filename = entryName.to_s)
  zis = zipFile.getInputStream(entryName)
  assertEntryContentsForStream(filename, zis, entryName)
ensure
  zis.close if zis
end
end
class ZipInputStreamTest < RUNIT::TestCase
include AssertEntry

def test_new
  zis = ZipInputStream.new(TestZipFile::TEST_ZIP2.zipName)
  assertStreamContents(zis, TestZipFile::TEST_ZIP2)
  zis.close
end

def test_openWithBlock
  ZipInputStream.open(TestZipFile::TEST_ZIP2.zipName) { |
    zis|
    assertStreamContents(zis, TestZipFile::TEST_ZIP2)
  }
end

def test_openWithoutBlock
  zis = ZipInputStream.open(TestZipFile::TEST_ZIP2.zipName)
  assertStreamContents(zis, TestZipFile::TEST_ZIP2)
end

def test_incompleteReads
  ZipInputStream.open(TestZipFile::TEST_ZIP2.zipName) { |
    zis|
    entry = zis.getNextEntry
    assert_equal(TestZipFile::TEST_ZIP2.entryNames[0], entry.name)
    assert zis.gets.length > 0
    entry = zis.getNextEntry
    assert_equal(TestZipFile::TEST_ZIP2.entryNames[1], entry.name)
    assert_equal(0, entry.size)
    assert_equal(nil, zis.gets)
    entry = zis.getNextEntry
    assert_equal(TestZipFile::TEST_ZIP2.entryNames[2], entry.name)
    assert zis.gets.length > 0
    entry = zis.getNextEntry
    assert_equal(TestZipFile::TEST_ZIP2.entryNames[3], entry.name)
    assert zis.gets.length > 0
  }
end

end

class TestFiles
  RANDOM_ASCII_FILE1  = "randomAscii1.txt"
  RANDOM_ASCII_FILE2  = "randomAscii2.txt"
  RANDOM_ASCII_FILE3  = "randomAscii3.txt"
  RANDOM_BINARY_FILE1 = "randomBinary1.bin"
end
RANDOM_BINARY_FILE2 = "randomBinary2.bin"

EMPTY_TEST_DIR = "emptytestdir"

ASCII_TEST_FILES = [ RANDOM_ASCII_FILE1, RANDOM_ASCII_FILE2, RANDOM_ASCII_FILE3 ]
BINARY_TEST_FILES = [ RANDOM_BINARY_FILE1, RANDOM_BINARY_FILE2 ]
TEST_DIRECTORIES = [ EMPTY_TEST_DIR ]
TEST_FILES = [ ASCII_TEST_FILES, BINARY_TEST_FILES, EMPTY_TEST_DIR ].flatten!

def TestFiles.createTestFiles(recreate)
    if (recreate || ! (TEST_FILES.inject(true) { |accum, element| accum && File.exists?(element) })))
        ASCII_TEST_FILES.each_with_index {
            |filename, index|
            createRandomAscii(filename, 1E4 * (index+1))
        }
        BINARY_TEST_FILES.each_with_index {
            |filename, index|
            createRandomBinary(filename, 1E4 * (index+1))
        }
        ensureDir(EMPTY_TEST_DIR)
    end
end

private
def TestFiles.createRandomAscii(filename, size)
    File.open(filename, "wb") {
        |file|
        while (file.tell < size)
            file << rand
        end
    }
end

def TestFiles.createRandomBinary(filename, size)
    File.open(filename, "wb") {
        |file|
        while (file.tell < size)
            file << rand.to_a.pack("V")
        end
    }
end

def TestFiles.ensureDir(name)
    if File.exists?(name)
return if File.stat(name).directory?
File.delete(name)
end
Dir.mkdir(name)
end
end

# For representation and creation of
test data
class TestZipFile
attr_accessor :zipName, :entryNames, :comment

def initialize(zipName, entryNames, comment = "")
  @zipName=zipName
  @entryNames=entryNames
  @comment = comment
end

def TestZipFile.createTestZips(recreate)
  files = Dir.entries(".")
  if (recreate ||
    ! (files.index(TEST_ZIP1.zipName) &&
      files.index(TEST_ZIP2.zipName) &&
      files.index(TEST_ZIP3.zipName) &&
      files.index(TEST_ZIP4.zipName) &&
      files.index("empty.txt") &&
      files.index("short.txt") &&
      files.index("longAscii.txt") &&
      files.index("longBinary.bin")))
    raise "failed to create test zip '#{TEST_ZIP1.zipName}'" unless
    system("zip '#{TEST_ZIP1.zipName} ziptest.rb")
    raise "failed to remove entry from '#{TEST_ZIP1.zipName}'" unless
    system("zip '#{TEST_ZIP1.zipName} -d ziptest.rb")
    File.open("empty.txt", "w") {}
    File.open("short.txt", "w") { |file| file << "ABCDEF" }
    ziptestTxt=""
    File.open("ziptest.rb") { |file| ziptestTxt=file.read }
    File.open("longAscii.txt", "w") {
      file << ziptestTxt
      while (file.tell < 1E5)
        file << ziptestTxt
      end
    }
    testBinaryPattern=""
File.open("empty.zip") { |file| testBinaryPattern=file.read }
testBinaryPattern *= 4

File.open("longBinary.bin", "wb") {
  file << testBinaryPattern << rand
}
raise "failed to create test zip '#{TEST_ZIP2.zipName}'" unless system("zip '#{TEST_ZIP2.zipName}' '#{TEST_ZIP2.entryNames.join(' ')}'")

raise "failed to add comment to test zip '#{TEST_ZIP2.zipName}'" unless system("bash -c "echo '#{TEST_ZIP2.comment}' | zip -z '#{TEST_ZIP2.zipName}''")

raise "failed to create test zip '#{TEST_ZIP3.zipName}'" unless system("zip '#{TEST_ZIP3.zipName}' '#{TEST_ZIP3.entryNames.join(' ')}'")

raise "failed to create test zip '#{TEST_ZIP4.zipName}'" unless system("zip '#{TEST_ZIP4.zipName}' '#{TEST_ZIP4.entryNames.join(' ')}'")
end
rescue
  raise $!.to_s + 
  "un\nzip\ntest.rb requires the Info-ZIP program 'zip' in the path\n  "to create test data. If you don't have it you can download\n  "the necessary test files at http://sf.net/projects/rubyzip."
end

TEST_ZIP1 = TestZipFile.new("empty.zip", [])
TEST_ZIP2 = TestZipFile.new("4entry.zip", %w{ longAscii.txt empty.txt short.txt longBinary.bin}, 
  "my zip comment")
TEST_ZIP3 = TestZipFile.new("test1.zip", %w{ file1.txt })
TEST_ZIP4 = TestZipFile.new("zipWithDir.zip", [ "file1.txt", TestFiles::EMPTY_TEST_DIR])
end

class AbstractOutputStreamTest < RUNIT::TestCase
class TestOutputStream
  include AbstractOutputStream

  attr_accessor :buffer

  def initialize
    @buffer = ""
  end
end
def << (data)
    @buffer << data
    self
end

def setup
    @outputStream = TestOutputStream.new

    @origCommaSep = $,
    @origOutputSep = $\nend

def teardown
    $, = @origCommaSep
    $\ = @origOutputSep
end

def test_write
    count = @outputStream.write("a little string")
    assert_equals("a little string", @outputStream.buffer)
    assert_equals("a little string").length, count

    count = @outputStream.write(" a little more")
    assert_equals("a little string. a little more", @outputStream.buffer)
    assert_equals(" a little more").length, count
end

def test_print
    $\ = nil # record separator set to nil
    @outputStream.print("hello")
    assert_equals("hello", @outputStream.buffer)

    @outputStream.print(" world.")
    assert_equals("hello world.", @outputStream.buffer)

    @outputStream.print(" You ok ", "out ", "there?")
    assert_equals("hello world. You ok out there?", @outputStream.buffer)

    $\ = "\n"
    @outputStream.print
    assert_equals("hello world. You ok out there?\n", @outputStream.buffer)

    @outputStream.print("I sure hope so!")
    assert_equals("hello world. You ok out there?\nI sure hope so!\n", @outputStream.buffer)

    $, = "X"
```ruby
@outputStream.buffer = ""
@outputStream.print("monkey", "duck", "zebra")
assert_equals("monkeyXduckXzebra\n", @outputStream.buffer)

$\ = nil
@outputStream.buffer = ""
@outputStream.print(20)
assert_equals("20", @outputStream.buffer)
end

def test_printf
  @outputStream.printf("%d %04x", 123, 123)
  assert_equals("123 007b", @outputStream.buffer)
end

def test_putchar
  @outputStream.putc(65)
  assert_equals("AA", @outputStream.buffer)
end

def test_puts
  @outputStream.puts(16, 20, 50, "hello")
  assert_equals("16
20
50
hello
", @outputStream.buffer)
eend
```
module CrcTest
  def runCrcTest(compressorClass)
    str = "Here's a nice little text to compute the crc for! Ho hum, it is nice nice nice nice indeed."
    fakeOut = AbstractOutputStreamTest::TestOutputStream.new

    deflater = compressorClass.new(fakeOut)
    deflater << str
    assert_equals(0x919920fc, deflater.crc)
  end
end

class PassThruCompressorTest < RUNIT::TestCase
  include CrcTest

  def test_size
    File.open("dummy.txt", "wb") {
      [file]
      compressor = PassThruCompressor.new(file)

      assert_equals(0, compressor.size)

      t1 = "hello world"
      t2 = ""
      t3 = "bingo"

      compressor << t1
      assert_equals(compressor.size, t1.size)

      compressor << t2
      assert_equals(compressor.size, t1.size + t2.size)

      compressor << t3
      assert_equals(compressor.size, t1.size + t2.size + t3.size)
    }
  end

  def test_crc
    runCrcTest(PassThruCompressor)
  end
end

class DeflaterTest < RUNIT::TestCase
  include CrcTest

  def test_outputOperator
    txt = loadFile("ziptest.rb")
  end
end
deflate(txt, "deflatertest.bin")
inflatedTxt = inflate("deflatertest.bin")
assert_equals(txt, inflatedTxt)
end

private
def loadFile(fileName)
  txt = nil
  File.open(fileName, "rb") { |f| txt = f.read }
end

def deflate(data, fileName)
  File.open(fileName, "wb") {
    [file]
    deflater = Deflater.new(file)
    deflater << data
    deflater.finish
    assert_equals(deflater.size, data.size)
    file << "trailing data for zlib with -MAX_WBITS"
  }
end

def inflate(fileName)
  txt = nil
  File.open(fileName, "rb") {
    [file]
    inflater = Inflater.new(file)
    txt = inflater.read
  }
end

def test_crc
  runCrcTest(Deflater)
end
end

class ZipOutputStreamTest < RUNIT::TestCase
  include AssertEntry

  TEST_ZIP = TestZipFile::TEST_ZIP2.clone
  TEST_ZIP.zipName = "output.zip"

  def test_new
    zos = ZipOutputStream.new(TEST_ZIP.zipName)
    zos.comment = TEST_ZIP.comment
    writeTestZip(zos)
    zos.close
    assertTestZipContents(TEST_ZIP)
  end
end
def test_open
  ZipOutputStream.open(TEST_ZIP.zipName) { |zos|
    zos.comment = TEST_ZIP.comment
    writeTestZip(zos)
  }
  assertTestZipContents(TEST_ZIP)
end

def test_writingToClosedStream
  assertIOErrorInClosedStream { |zos| zos << "hello world" }
  assertIOErrorInClosedStream { |zos| zos.puts "hello world" }
  assertIOErrorInClosedStream { |zos| zos.write "hello world" }
end

def test_cannotOpenFile
  name = TestFiles::EMPTY_TEST_DIR
  begin
    zos = ZipOutputStream.open(name)
    rescue Exception
      assert($!.kind_of?(Errno::EISDIR) || # Linux
      $!.kind_of?(Errno::EEXIST) || # Windows/cygwin
      $!.kind_of?(Errno::EACCES), # Windows
      "Expected Errno::EISDIR (or on win/cygwin: Errno::EEXIST), but was: #{$http.type}")
    end
  end
end

def assertIOErrorInClosedStream
  assert_exception(IOError) {
    zos = ZipOutputStream.new("test_putOnClosedStream.zip")
    zos.close
    yield zos
  }
end

def writeTestZip(zos)
  TEST_ZIP.entryNames.each { |entryName|
    zos.putNextEntry(entryName)
    File.open(entryName, "rb") { |f| zos.write(f.read) }
  }
end
module Enumerable
def compareEnumerables(otherEnumerable)
    otherAsArray = otherEnumerable.to_a
    index = 0
    each_with_index {
        |element, index|
        return false unless yield(element, otherAsArray[index])
    }
    return index + 1 == otherAsArray.size
end
end

class ZipCentralDirectoryEntryTest < RUNIT::TestCase

def test_readFromStream
    File.open("testDirectory.bin", "rb") {
        |file|
        entry = ZipEntry.readCDirEntry(file)

        assert_equal("longAscii.txt", entry.name)
        assert_equal(ZipEntry::DEFLATED, entry.compressionMethod)
        assert_equal(106490, entry.size)
        assert_equal(3784, entry.compressedSize)
        assert_equal(0xfcd1799c, entry.crc)
        assert_equal(""); entry.comment

        entry = ZipEntry.readCDirEntry(file)
        assert_equal("empty.txt", entry.name)
        assert_equal(ZipEntry::STORED, entry.compressionMethod)
        assert_equal(0, entry.size)
        assert_equal(0, entry.compressedSize)
        assert_equal(0x0, entry.crc)
        assert_equal(""); entry.comment

        entry = ZipEntry.readCDirEntry(file)
        assert_equal("short.txt", entry.name)
        assert_equal(ZipEntry::STORED, entry.compressionMethod)
        assert_equal(6, entry.size)
        assert_equal(6, entry.compressedSize)
        assert_equal(0xbb76fe69, entry.crc)
        assert_equal(""); entry.comment

        entry = ZipEntry.readCDirEntry(file)
        assert_equal("longBinary.bin", entry.name)
        assert_equal(ZipEntry::DEFLATED, entry.compressionMethod)
        assert_equal(1000024, entry.size)
        assert_equal(70847, entry.compressedSize)
    }
end
assert_equals(0x10da7d59, entry.crc)
assert_equals("", entry.comment)

entry = ZipEntry.readCDirEntry(file)
assert_equals(nil, entry)

# Fields that are not check by this test:
#          version made by                 2 bytes
#          version needed to extract      2 bytes
#          general purpose bit flag      2 bytes
#          last mod file time           2 bytes
#          last mod file date           2 bytes
#          compressed size              4 bytes
#          uncompressed size            4 bytes
#          disk number start            2 bytes
#          internal file attributes     2 bytes
#          external file attributes     4 bytes
#          relative offset of local header 4 bytes
#
#          file name (variable size)
#          extra field (variable size)
#          file comment (variable size)

end

def test_ReadEntryFromTruncatedZipFile
  fragment=""
  File.open("testDirectory.bin") { |f| fragment = f.read(12) } # cdir entry header is at least 46 bytes
  fragment.extend(IOizeString)
  entry = ZipEntry.new
  entry.readCDirEntry(fragment)
  fail "ZipError expected"
  rescue ZipError
end

end

class ZipCentralDirectoryTest < RUNIT::TestCase

  def test_readFromStream
    File.open(TestZipFile::TEST_ZIP2.zipName, "rb") { |
      [zipFile]
      cdir = ZipCentralDirectory.readFromStream(zipFile)
      assert_equals(TestZipFile::TEST_ZIP2.entryNames.size, cdir.size)
      assert(cdir.compareEnumerables(TestZipFile::TEST_ZIP2.entryNames) { |
        [cdirEntry, testEntryName]
        cdirEntry.name == testEntryName
      })
    }
end
assert_equals(TestZipFile::TEST_ZIP2.comment, cdir.comment)
}
end

def test_readFromInvalidStream
File.open("ziptest.rb", "rb") { 
  zipFile
  cdir = ZipCentralDirectory.new
  cdir.readFromStream(zipFile)
} 
fail "ZipError expected!"
rescue ZipError
end

def test_ReadFromTruncatedZipFile
  fragment=""
  File.open("testDirectory.bin") { |f| fragment = f.read }
  fragment.slice!(12) # removed part of first cdir entry. eocd structure still complete
  fragment.extend(IOizeString)
  entry = ZipCentralDirectory.new
  entry.readFromStream(fragment)
  fail "ZipError expected"
  rescue ZipError
end

def test_writeToStream
  entries = [ZipEntry.new("file.zip", "flimse", "myComment", "somethingExtra"),
             ZipEntry.new("file.zip", "secondEntryName"),
             ZipEntry.new("file.zip", "lastEntry.txt", "Has a comment too") ]
  cdir = ZipCentralDirectory.new(entries, "my zip comment")
  File.open("cdirtest.bin", "wb") { |f| cdir.writeToStream(f) }
  cdirReadback = ZipCentralDirectory.new
  File.open("cdirtest.bin", "rb") { |f| cdirReadback.readFromStream(f) }
  assert_equals(cdir.entries, cdirReadback.entries)
end

def test_equality
cdir1 = ZipCentralDirectory.new([ZipEntry.new("file.zip", "flimse", nil,
                                 "somethingExtra"),
                                 ZipEntry.new("file.zip", "secondEntryName"),
                                 ZipEntry.new("file.zip", "lastEntry.txt") ],
                                 "my zip comment")
cdir2 = ZipCentralDirectory.new([ZipEntry.new("file.zip", "flimse", nil,
                                 "somethingExtra"),
                                 ZipEntry.new("file.zip", "secondEntryName"),
                                 ZipEntry.new("file.zip", "lastEntry.txt") ],
                                 "my zip comment")
end
cdir3 = ZipCentralDirectory.new([ ZipEntry.new("file.zip", "flimse", nil, "somethingExtra"), ZipEntry.new("file.zip", "secondEntryName"), ZipEntry.new("file.zip", "lastEntry.txt") ], "comment?")

assert(cdir1 != cdir3)
assert(cdir2 != cdir3)
assert(cdir2 != cdir3)
assert(cdir3 != cdir4)
assert(cdir3 != "hello")
end
end

class BasicZipFileTest < RUNIT::TestCase
include AssertEntry

def setup
  @zipFile = ZipFile.new(TestZipFile::TEST_ZIP2.zipName)
  @testEntryNameIndex=0
end

def nextTestEntryName
  retVal=TestZipFile::TEST_ZIP2.entryNames[@testEntryNameIndex]
  @testEntryNameIndex+=1
  return retVal
end

def test_entries
  assert_equal(TestZipFile::TEST_ZIP2.entryNames, @zipFile.entries.map { |e| e.name } )
end

def test_each
  @zipFile.each { |entry|
    assert_equal(nextTestEntryName, entry.name)
  }
  assert_equal(4, @testEntryNameIndex)
end

end
def test_foreach
ZipFile.foreach(TestZipFile::TEST_ZIP2.zipName) {
  [entry]
  assert_equals(nextTestEntryName, entry.name)
}
assert_equals(4, @testEntryNameIndex)
end

def test_getInputStream
  @zipFile.each {
    [entry]
    assertEntry(nextTestEntryName, @zipFile.getInputStream(entry), entry.name)
  }
  assert_equals(4, @testEntryNameIndex)
end

def test_getInputStreamBlock
  fileAndEntryName = @zipFile.entries.first.name
  @zipFile.getInputStream(fileAndEntryName) {
    [zis]
    assertEntryContentsForStream(fileAndEntryName, zis, fileAndEntryName)
  }
end

class CommonZipFileFixture < RUNIT::TestCase
  include AssertEntry
  EMPTY_FILENAME = "emptyZipFile.zip"
  TEST_ZIP = TestZipFile::TEST_ZIP2.clone
  TEST_ZIP.zipName = "4entry_copy.zip"
  def setup
    File.delete(EMPTY_FILENAME) if File.exists?(EMPTY_FILENAME)
    File.copy(TestZipFile::TEST_ZIP2.zipName, TEST_ZIP.zipName)
  end
end

class ZipFileTest < CommonZipFileFixture
  def test_createFromScratch
    comment = "a short comment"
  end
end
zf = ZipFile.new(EMPTY_FILENAME, ZipFile::CREATE)
zf.comment = comment
zf.close

zfRead = ZipFile.new(EMPTY_FILENAME)
assert_equals(comment, zfRead.comment)
assert_equals(0, zfRead.entries.length)
end

def test_add
  srcFile = "ziptest.rb"
  entryName = "newEntryName.rb"
  assert(File.exists? srcFile)
  zf = ZipFile.new(EMPTY_FILENAME, ZipFile::CREATE)
  zf.add(entryName, srcFile)
  zf.close

  zfRead = ZipFile.new(EMPTY_FILENAME)
  assert_equals("", zfRead.comment)
  assert_equals(1, zfRead.entries.length)
  assert_equals(entryName, zfRead.entries.first.name)
  AssertEntry.assertContents(srcFile,
    zfRead.getInputStream(entryName) { |zis| zis.read })
end

def test_addExistingEntryName
  assert_exception(ZipEntryExistsError) {
    ZipFile.open(TEST_ZIP.zipName) {
      zf
      zf.add(zf.entries.first.name, "ziptest.rb")
    }
  }
end

def test_addExistingEntryNameReplace
  gotCalled = false
  replacedEntry = nil
  ZipFile.open(TEST_ZIP.zipName) {
    zf
    replacedEntry = zf.entries.first.name
    zf.add(replacedEntry, "ziptest.rb") { gotCalled = true; true }
  }
  assert(gotCalled)
  ZipFile.open(TEST_ZIP.zipName) {
    zf
    assertContains(zf, replacedEntry, "ziptest.rb")
  }
end
def test_addDirectory
  ZipFile.open(TEST_ZIP.zipName) { 
    |zf|
    zf.add(TestFiles::EMPTY_TEST_DIR, TestFiles::EMPTY_TEST_DIR)
  }
  ZipFile.open(TEST_ZIP.zipName) { 
    |zf|
    dirEntry = zf.entries.detect { |e| e.name == TestFiles::EMPTY_TEST_DIR+"/" }
    assert(dirEntry.isDirectory)
  }
end

def test_remove
  entryToRemove, *remainingEntries = TEST_ZIP.entryNames
  File.copy(TestZipFile::TEST_ZIP2.zipName, TEST_ZIP.zipName)
  zf = ZipFile.new(TEST_ZIP.zipName)
  assert zf.entries.map { |e| e.name }.include?(entryToRemove)
  zf.remove(entryToRemove)
  assert ! zf.entries.map { |e| e.name }.include?(entryToRemove)
  assert_equals(zf.entries.map {|x| x.name}.sort, remainingEntries.sort)
  zf.close
  zfRead = ZipFile.new(TEST_ZIP.zipName)
  assert ! zfRead.entries.map { |e| e.name }.include?(entryToRemove)
  assert_equals(zfRead.entries.map {|x| x.name}.sort, remainingEntries.sort)
  zfRead.close
end

def test_rename
  entryToRename, *remainingEntries = TEST_ZIP.entryNames
  zf = ZipFile.new(TEST_ZIP.zipName)
  assert zf.entries.map { |e| e.name }.include? entryToRename
  newName = "changed name"
  assert ! zf.entries.map { |e| e.name }.include?(newName)
  zf.rename(entryToRename, newName)
  assert zf.entries.map { |e| e.name }.include? newName
  zf.close
  zfRead = ZipFile.new(TEST_ZIP.zipName)
  assert zfRead.entries.map { |e| e.name }.include? newName
end
zfRead.close

def test_renameToExistingEntry
    oldEntries = nil
    ZipFile.open(TEST_ZIP.zipName) { |zf| oldEntries = zf.entries }

    assert_exception(ZipEntryExistsError) {
        ZipFile.open(TEST_ZIP.zipName) {
            zf.rename(zf.entries[0], zf.entries[1].name)
        }
    }

    ZipFile.open(TEST_ZIP.zipName) {
        zf
        assert_equals(oldEntries.map{ |e| e.name }, zf.entries.map{ |e| e.name })
    }
end

def test_renameToExistingEntryOverwrite
    oldEntries = nil
    ZipFile.open(TEST_ZIP.zipName) { |zf| oldEntries = zf.entries }

    gotCalled = false
    ZipFile.open(TEST_ZIP.zipName) {
        zf
        zf.rename(zf.entries[0], zf.entries[1].name) { gotCalled = true; true }
    }

    assert(gotCalled)
    oldEntries.delete_at(0)
    ZipFile.open(TEST_ZIP.zipName) {
        zf
        assert_equals(oldEntries.map{ |e| e.name }, zf.entries.map{ |e| e.name })
    }
end

def test_renameNonEntry
    nonEntry = "bogusEntry"
    targetEntry = "targetEntryName"
    zf = ZipFile.new(TEST_ZIP.zipName)
    assert(! zf.entries.include?(nonEntry))
    assert_exception(ZipNoSuchEntryError) {
        zf.rename(nonEntry, targetEntry)
    }
    zf.commit
assert(! zf.entries.include?(targetEntry))
ensure
zf.close
end

def test_renameEntryToExistingEntry
  entry1, entry2, *remaining = TEST_ZIP.entryNames
  zf = ZipFile.new(TEST_ZIP.zipName)
  assert_exception(ZipEntryExistsError) {
    zf.rename(entry1, entry2)
  }
ensure
zf.close
end

def test_replace
  unchangedEntries = TEST_ZIP.entryNames.dup
  entryToReplace = unchangedEntries.delete_at(2)
  newEntrySrcFilename = "ziptest.rb"

  zf = ZipFile.new(TEST_ZIP.zipName)
  zf.replace(entryToReplace, newEntrySrcFilename)

  zf.close

  zfRead = ZipFile.new(TEST_ZIP.zipName)
  AssertEntry::assertContents(newEntrySrcFilename, zfRead.getInputStream(entryToReplace) { |is| is.read })
  zfRead.close
end

def test_replaceNonEntry
  entryToReplace = "nonExistingEntryname"
  ZipFile.open(TEST_ZIP.zipName) {
    zf
      assert_exception(ZipNoSuchEntryError) {
        zf.replace(entryToReplace, "ziptest.rb")
      }
  }
end

def test_commit
  newName = "renamedFirst"
  zf = ZipFile.new(TEST_ZIP.zipName)
  oldName = zf.entries.first
  zf.rename(oldName, newName)
  zf.commit
zfRead = ZipFile.new(TEST ZIP.zipName)
assert(zfRead.entries.detect { |e| e.name == newName } != nil)
assert(zfRead.entries.detect { |e| e.name == oldName } == nil)
zfRead.close

# This test tests that after commit, you
# can delete the file you used to add the entry to the zip file
# with
def test_commitUseZipEntry
  File.copy(TestFiles::RANDOM_ASCII_FILE1, "okToDelete.txt")
zf = ZipFile.open(TEST ZIP.zipName)
zf.add("okToDelete.txt", "okToDelete.txt")
assertContains(zf, "okToDelete.txt")
zf.commit
  File.move("okToDelete.txt", "okToDeleteMoved.txt")
assertContains(zf, "okToDelete.txt", "okToDeleteMoved.txt")
end

# def test_close
#  zf = ZipFile.new(TEST ZIP.zipName)
#  zf.close
#  assert_exception(IOError) {
#    zf.extract(TEST ZIP.entryNames.first, "hullubullu")
#  }
# end

def test_compound1
  renamedName = "renamedName"
  originalEntries = []
  begin
    zf = ZipFile.new(TEST ZIP.zipName)
    originalEntries = zf.entries.dup

    assertNotContains(zf, TestFiles::RANDOM_ASCII_FILE1)
zf.add(TestFiles::RANDOM_ASCII_FILE1, TestFiles::RANDOM_ASCII_FILE1)
assertContains(zf, TestFiles::RANDOM_ASCII_FILE1)

    zf.rename(zf.entries[0], renamedName)
assertContains(zf, renamedName)
  TestFiles::BINARY_TEST_FILES.each {
    [filename] =\n    zf.add(filename, filename)
assertContains(zf, filename)
begin
  zf = ZipFile.new(TEST_ZIP.zipName)
  originalEntries = zf.entries.dup

  originalEntries.each { |entry|
    zf.remove(entry)
    assertNotContains(zf, entry)
  }

  assert(zf.entries.empty?)

  TestFiles::ASCII_TEST_FILES.each { |filename|
    zf.add(filename, filename)
    assertContains(zf, filename)
  }

  assert_equals(zf.entries.map { |e| e.name }, TestFiles::ASCII_TEST_FILES)

  zf.rename(TestFiles::ASCII_TEST_FILES[0], "newName")
  assertNotContains(zf, TestFiles::ASCII_TEST_FILES[0])
  assertContains(zf, "newName")

  ensure
  zf.close
end
begin
zfRead = ZipFile.new(TEST_ZIP.zipName)
asciiTestFiles = TestFiles::ASCII_TEST_FILES.dup
asciiTestFiles.shift
asciiTestFiles.each { [filename]
assertContains(zf, filename)
}

assertContains(zf, "newName")
ensure
zfRead.close
end
end

private
def assertContains(zf, entryName, filename = entryName)
assert(zf.entries.detect { |e| e.name == entryName } != nil, "entry #{entryName} not in #{zf.entries.join(', ')} in zip file #{zf}")
assertEntryContents(zf, entryName, filename) if File.exists?(filename)
end

def assertNotContains(zf, entryName)
assert(zf.entries.detect { |e| e.name == entryName } == nil, "entry #{entryName} in #{zf.entries.join(', ')} in zip file #{zf}")
end

class ZipFileExtractTest < CommonZipFileFixture
EXTRACTED_FILENAME = "extEntry"
ENTRY_TO_EXTRACT, *REMAINING_ENTRIES = TEST_ZIP.entryNames.reverse

def setup
super
File.delete(EXTRACTED_FILENAME) if File.exists?(EXTRACTED_FILENAME)
end

def test_extract
ZipFile.open(TEST_ZIP.zipName) {

zf
zf.extract(ENTRY_TO_EXTRACT, EXTRACTED_FILENAME)

assert(File.exists? EXTRACTED_FILENAME)
assertEntry::assertContents(EXTRACTED_FILENAME,
zf.getInputStream(ENTRY_TO_EXTRACT) { |is| is.read })
}
end
def test_extractExists
    writtenText = "written text"
    File.open(EXTRACTED_FILENAME, "w") { |f| f.write(writtenText) }

    assert_exception(ZipDestinationFileExistsError) {
        ZipFile.open(TEST_ZIP.zipName) {
            zf
            zf.extract(zf.entries.first, EXTRACTED_FILENAME)
        }
    }

    File.open(EXTRACTED_FILENAME, "r") { |f|
        assert_equals(writtenText, f.read)
    }
end

def test_extractExistsOverwrite
    writtenText = "written text"
    File.open(EXTRACTED_FILENAME, "w") { |f| f.write(writtenText) }

    gotCalled = false
    ZipFile.open(TEST_ZIP.zipName) {
        zf
        zf.extract(zf.entries.first, EXTRACTED_FILENAME) { gotCalled = true; true }
    }

    assert(gotCalled)

    File.open(EXTRACTED_FILENAME, "r") { |f|
        assert(writtenText != f.read)
    }
end

def test_extractNonEntry
    zf = ZipFile.new(TEST_ZIP.zipName)
    assert_exception(ZipNoSuchEntryError) { zf.extract("nonExistingEntry", "nonExistingEntry") }

    ensure
        zf.close if zf
end

def test_extractNonEntry2
    outFile = "outfile"
    assert_exception(ZipNoSuchEntryError) {
        zf = ZipFile.new(TEST_ZIP.zipName)
        nonEntry = "hotdog-diddelidoo"
        assert(! zf.entries.include?(nonEntry))
        zf.extract(nonEntry, outFile)
        zf.close
    }
assert(! File.exists?(outFile))
end

class ZipFileExtractDirectoryTest < CommonZipFileFixture
TEST_OUT_NAME = "emptyOutDir"

def openZip(&aProc)
  assert(aProc != nil)
  ZipFile.open(TestZipFile::TEST_ZIP4.zipName, &aProc)
end

def extractTestDir(&aProc)
  openZip {
    zf
    zf.extract(TestFiles::EMPTY_TEST_DIR, TEST_OUT_NAME, &aProc)
  }
end

def setup
  super
  Dir.rmdir(TEST_OUT_NAME) if File.directory? TEST_OUT_NAME
  File.delete(TEST_OUT_NAME) if File.exists? TEST_OUT_NAME
end

def test_extractDirectory
  extractTestDir
  assert(File.directory? TEST_OUT_NAME)
end

def test_extractDirectoryExistsAsDir
  Dir.mkdir TEST_OUT_NAME
  extractTestDir
  assert(File.directory? TEST_OUT_NAME)
end

def test_extractDirectoryExistsAsFile
  File.open(TEST_OUT_NAME, "w") { |f| f.puts "something" }
  assert_exception(ZipDestinationFileExistsError) { extractTestDir }
end

def test_extractDirectoryExistsAsFileOverwrite
  File.open(TEST_OUT_NAME, "w") { |f| f.puts "something" }
  gotCalled = false
  extractTestDir {

gotCalled = true
assert_equals(TEST_OUT_NAME, destPath)
assert(entry.isDirectory)
true
}
assert(gotCalled)
assert(File.directory? TEST_OUT_NAME)
end
end

TestFiles::createTestFiles(ARGV.index("recreate") != nil ||
ARGV.index("recreateonly") != nil)
TestZipFile::createTestZips(ARGV.index("recreate") != nil ||
ARGV.index("recreateonly") != nil)
exit if ARGV.index("recreateonly") != nil

#require 'runit/cui/testrunner'
#RUNIT::CUI::TestRunner.run(ZipFileTest.suite)

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# modify it under the terms of the ruby license.

Found in path(s):
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/test/data/file2.txt
No license file was found, but licenses were detected in source scan.

# Path Traversal Samples


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Found in path(s):
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/test/data/path_traversal/jwilk/README.md
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Found in path(s):
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/entry_set.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/deflater.rb
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/lib/zip/pass_thru_decompressor.rb
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Found in path(s):
* /opt/cola/permits/1156532459_1619204872.97/0/rubyzip-1-3-0-1-gem/data-tar-gz/README.md

1.129 tar 1.29b 2ubuntu0.3

1.129.1 Available under license:

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1.131 go-redis-redis 8.11.4

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1.132 libxkbfile 1.1.0-1

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1.133 tiger-types 1.4
1.133.1 Available under license:

<!DOCTYPE html>
<html lang="en" dir="ltr">
<head profile="http://www.w3.org/1999/xhtml/vocab">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
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<link rel="shortlink" href="/node/47" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/CDDL-1.0" />
<title>Common Development and Distribution License (CDDL-1.0) | Open Source Initiative</title>
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-fncB6zZfd2huxgxxu4WO-qwma6Xer30m4.css" media="all" />
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<ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-items-6 sf-single-items-0">
  <li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-depth-1 menuparent">About</a>
    <ul>
      <li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/history" title="History of the OSI" class="sf-depth-2">History</a></li>
      <li id="menu-82-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/board" title="Board of Directors" class="sf-depth-2 menuparent">Board</a>
        <ul>
          <li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/docs/board-annotated" title="OSI Board -- With Annotations" class="sf-depth-3">Board - Annotated</a></li>
          <li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/organization" title="These portfolios represent the activities of the current OSI board." class="sf-depth-3">Organization & Operations</a>
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                  <li id="menu-183-1" class="last even sf-item-2 sf-depth-3 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/logo-usage-guidelines" title="Guidelines for appearance and usage of OSI Logo" class="sf-depth-3">Logo Guidelines</a></li>
                </ul></li>
            </ul></li>
          <li id="menu-120-1" class="middle odd sf-item-3 sf-total-children-6 sf-parent-children-4 sf-single-children-4 menuparent"><a href="/ToS" title="Rules for posting content on this site" class="sf-depth-2 menuparent">Terms of Service</a>
            <ul>
              <li id="menu-119-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/license-compliance" title="Certifying licences as OSD-compliant" class="sf-depth-3">License Review Process</a></li>
              <li id="menu-77-1" class="middle even sf-item-2 sf-depth-3 sf-total-children-3 sf-parent-children-1 sf-single-children-1 menuparent"><a href="/licenses/copyright" title="Licenses by Category" class="sf-depth-3">Licenses by Category</a>
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                    <ul>
                      <li id="menu-75-1" class="first odd sf-item-1 sf-depth-4 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/licenses/alphabetical" title="License Proliferation Committee & report to the OSI Board" class="sf-depth-3">LP report to the Board</a>
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                          <li id="menu-73-1" class="last even sf-item-2 sf-depth-5 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/licenses" title="Open Standards Requirement for Software" class="sf-depth-3">Open Source Licence</a></li>
                        </ul></li>
                    </ul></li>
                  <li id="menu-71-1" class="middle even sf-item-2 sf-depth-4 sf-total-children-3 sf-parent-children-1 sf-single-children-1 menuparent"><a href="/licenses/copyright" title="Certifying licences as OSD-compliant" class="sf-depth-3">License Review Process</a>
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                        <ul>
                          <li id="menu-79-1" class="first odd sf-item-1 sf-depth-4 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/licenses" title="Certifying licences as OSD-compliant" class="sf-depth-3">License Review Process</a></li>
                          <li id="menu-78-1" class="last even sf-item-2 sf-depth-4 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent"><a href="/licenses" title="Certifying licences as OSD-compliant" class="sf-depth-3">License Review Process</a></li>
                        </ul></li>
        </ul></li>
    </ul></li>
  </ul>
</div>
The Open Standards Requirement

Open Standards Requirement Compliance

Open Standards Requirement Rationale

Open Standards Requirement Compliance

Open Standards Requirement Compliance

Become an Affiliate

List of Affiliates

Affiliate Criteria

Affiliate Requirements

Mailing lists

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General Code of Conduct

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Policy on Public Communications and Archives

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OSI Board Blog

FAQ

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Getting Help

Links and References to Open Source
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Further resources on CDDL-1.0

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```javascript
} else {
    x = " ";
}
document.getElementById("demo").innerHTML = x;
```

```html
<!--><![endif]
</script>
</div>

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1.134 openssl 1.0.2n-1ubuntu5.8

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1.135 jackson-dataformat-yaml 2.11.2

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1.145 opensaml-profile-api 4.0.1
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* /opt/cola/permits/1247632545_1640336595.78/0/opensaml-profile-api-4-0-1-sources-jar/org/opensaml/profile/action/AbstractProfileAction.java
* /opt/cola/permits/1247632545_1640336595.78/0/opensaml-profile-api-4-0-1-sources-jar/org/opensaml/profile/logic/NoIntegrityMessageChannelPredicate.java
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**NOT** support confidentiality end-to-end.

Typically but not exclusively used as a predicate for whether to encrypt something.

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* /opt/cola/permits/1247632545_1640336595.78/0/opensaml-profile-api-4-0-1-sources-
jar/org/opensaml/profile/logic/NoConfidentialityMessageChannelPredicate.java

---

**1.146 open-ldap 2.4.49+dfsg-2ubuntu1.8**

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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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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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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

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* /opt/cola/permits/1267543569_1644318277.59/0/netty-resolver-4.1.73-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java
* /opt/cola/permits/1267543569_1644318277.59/0/netty-resolver-4.1.73-final-sources-jar/io/netty/resolver/HostsFileEntries.java
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* /opt/cola/permits/1267543569_1644318277.59/0/netty-resolver-4.1.73-final-sources-
  jar/io/netty/resolver/package-info.java
* /opt/cola/permits/1267543569_1644318277.59/0/netty-resolver-4.1.73-final-sources-
  jar/io/netty/resolver/NoopAddressResolverGroup.java
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  jar/io/netty/resolver/AddressResolverGroup.java
* /opt/cola/permits/1267543569_1644318277.59/0/netty-resolver-4.1.73-final-sources-
  jar/io/netty/resolver/SimpleNameResolver.java
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The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit.org.eclipse.security.auth.message
The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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
org.apache.taglibs:taglibs-standard-impl
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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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1.190 elfutils 0.176-1.1build1

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1.196 mesa-vulkan-drivers 21.2.6-0ubuntu0.1~20.04.2
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libfreedreno_layout = static_library('freedreno_layout',
    ['fd5_layout.c',
     'fd6_layout.c',
     'freedreno_layout.c',
    ],
    include_directories : [inc_fredereno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
    c_args : [no_override_init_args],
    gnu_symbol_visibility : 'hidden',

dependencies : [idep_nir_headers, idep_mesautil],
build_by_default : false,
)

foreach major : ['5', '6']
test(
  'fd' + major + '_layout',
  executable(
    'fd' + major + '_layout',
    [ 
      'fd_layout_test.c',
      'fd' + major + '_layout_test.c',
      freedreno_xml_header_files,
    ],
    link_with: libfreedreno_layout,
dependencies : idep_mesautil,
include_directories: [
  inc_include,
  inc_src,
  inc_mapi,
  inc_mesa,
  inc_gallium,
  inc_gallium_aux,
  inc_freedreno],
),
suite : ['freedreno'],
)
endforeach
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1.199 x-sys 0.0.0-20210603081109-ebe580a85c40

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1.200 libxau 1.0.8-1ubuntu1

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1.201 logstash-filter-fingerprint 3.3.2

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/**
 * Utility class for {link ByteBuf} that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
*  
* 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
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/**
* Enumeration of supported Base64 dialects.
*  
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  jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
  jar/io/netty/handler/codec/DefaultHeaders.java
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* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
  jar/io/netty/handler/codec/ByteToMessageCodec.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
  jar/io/netty/handler/codec/serialization/ClassResolver.java
* /opt/cola/permits/1267543382_1644318286.39/0/netty-codec-4-1-73-final-sources-
  jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
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  jar/io/netty/handler/codec/string/StringEncoder.java
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  jar/io/netty/handler/codec/ValueConverter.java
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/**
*
* A decoder that splits the received [ @link ByteBuf ] s dynamically by the
* value of the length field in the message. It is particularly useful when you
* decode a binary message which has an integer header field that represents the
* length of the message body or the whole message.
* <p>
* [ @link LengthFieldBasedFrameDecoder ] has many configuration parameters so
* that it can decode any message with a length field, which is often seen in
* proprietary client-server protocols. Here are some example that will give
* you the basic idea on which option does what.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
* The value of the length field in this example is <tt>12 (0x0C)</tt> which
* represents the length of "HELLO, WORLD". By default, the decoder assumes
* that the length field represents the number of the bytes that follows the
* length field. Therefore, it can be decoded with the simplistic parameter
* combination.
* `lengthFieldOffset` = 0
* `lengthFieldLength` = 2
* `lengthAdjustment` = 0
* `initialBytesToStrip` = 0 (= do not strip header)

* BEFORE DECODE (14 bytes)       AFTER DECODE (14 bytes)
  * +--------+----------------+      +--------+----------------+
  * | Length | Actual Content |----->| Length | Actual Content |
  * | 0x000C  | "HELLO, WORLD" |      | 0x000C  | "HELLO, WORLD" |
  * +--------+----------------+      +--------+----------------+

* </pre>

* <h3>2 bytes length field at offset 0, strip header</h3>

* Because we can get the length of the content by calling
  * `ByteBuf#readableBytes()`], you might want to strip the length
  * field by specifying `initialBytesToStrip`. In this example, we
  * specified `2`, that is same with the length of the length field, to
  * strip the first two bytes.

* 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
  * `lengthAdjustment`. Because the length value in this example message
  * is always greater than the body length by `2`, we specify `-2` for
  * compensation.

* 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
  * `lengthAdjustment`. Because the length value in this example message
  * is always greater than the body length by `2`, we specify `-2` for
  * compensation.
* 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)
* +------------------+-----------------------------------+
* | 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 `lengthFieldOffset` and the extra header affects the `lengthAdjustment`. We also specified a non-zero `initialBytesToStrip` to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify `0` for `initialBytesToStrip`.

```
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 |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+      +------+----------------+
```

2 bytes length field at offset 1 in the middle of 4 bytes header, strip the first header field and the length field, the length field represents the length of the whole message

```
lengthFieldOffset = 1
lengthFieldLength = 2
<b>lengthAdjustment</b> = <b>-3</b> (= the length of HDR1 + LEN, negative)
<b>initialBytesToStrip</b> = <b>3</b>
```

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+      +------+----------------+
```

Let's give another twist to the previous example. The only difference from the previous example is that the length field represents the length of the whole message instead of the message body, just like the third example. We have to count the length of HDR1 and Length into `lengthAdjustment`. Please note that we don't need to take the length of HDR2 into account because the length field already includes the whole header length.

```
lengthFieldOffset = 1
lengthFieldLength = 2
<b>lengthAdjustment</b> = <b>-3</b>
<b>initialBytesToStrip</b> = <b>3</b>
```

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
+------+--------+------+----------------+      +------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+------+--------+------+----------------+      +------+----------------+
```

@see LengthFieldPrepender
*/

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* /opt/cola/permits/1297656609_1650268710.38/0/flask-2-1-1-tar-gz/Flask-2.1.1/examples/javascript/LICENSE.rst
* /opt/cola/permits/1297656609_1650268710.38/0/flask-2-1-1-tar-gz/Flask-2.1.1/examples/tutorial/LICENSE.rst
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Metadata-Version: 2.1
Name: Flask
Version: 2.1.1
Summary: A simple framework for building complex web applications.
Home-page: https://palletsprojects.com/p/flask
Author: Armin Ronacher
  Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
  Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Documentation, https://flask.palletsprojects.com/
Project-URL: Changes, https://flask.palletsprojects.com/changes/
Project-URL: Twitter, https://twitter.com/PalletsTeam
Project-URL: Chat, https://discord.gg/pallets
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Framework :: Flask
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Internet :: WWW/HTTP :: WSGI
Classifier: Topic :: Software Development :: Libraries :: Application Frameworks
Requires-Python: >=3.7
Description-Content-Type: text/x-rst
Provides-Extra: async
Provides-Extra: dotenv
Flask
======

Flask is a lightweight `WSGI`_ web application framework. It is designed to make getting started quick and easy, with the ability to scale up to complex applications. It began as a simple wrapper around `Werkzeug`_ and `Jinja`_ and has become one of the most popular Python web application frameworks.

Flask offers suggestions, but doesn't enforce any dependencies or project layout. It is up to the developer to choose the tools and libraries they want to use. There are many extensions provided by the community that make adding new functionality easy.

.. _WSGI: https://wsgi.readthedocs.io/
.. _Werkzeug: https://werkzeug.palletsprojects.com/
.. _Jinja: https://jinja.palletsprojects.com/

Installing
----------

Install and update using `pip`_:

.. code-block:: text

    $ pip install -U Flask


A Simple Example
----------------

.. code-block:: python

    # save this as app.py
    from flask import Flask
    app = Flask(__name__)

    @app.route("/")
    def hello():
        return "Hello, World!"

    .. code-block:: text
$ flask run
  * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

Contributing
-------------

For guidance on setting up a development environment and how to make a
contribution to Flask, see the `contributing guidelines`_.

.. _contributing guidelines: https://github.com/pallets/flask/blob/main/CONTRIBUTING.rst

Donate
------

The Pallets organization develops and supports Flask and the libraries
it uses. In order to grow the community of contributors and users, and
allow the maintainers to devote more time to the projects, `please
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.. _please donate today: https://palletsprojects.com/donate

Links
-----

- Documentation: https://flask.palletsprojects.com/
- Changes: https://flask.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Flask/
- Source Code: https://github.com/pallets/flask/
- Issue Tracker: https://github.com/pallets/flask/issues/
- Website: https://palletsprojects.com/p/flask/
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1297656609_1650268710.38/0/flask-2.1.1-tar-gz/Flask-2.1.1/PKG-INFO
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Flask leverages Jinja2 as its template engine. You are obviously free to use

Found in path(s):
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[metadata]
name = Flask
version = attr: flask.__version__
url = https://palletsprojects.com/p/flask
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://flask.palletsprojects.com/
  Changes = https://flask.palletsprojects.com/changes/
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  Issue Tracker = https://github.com/pallets/flask/issues/
  Twitter = https://twitter.com/PalletsTeam
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license = BSD-3-Clause
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A simple framework for building complex web applications.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Web Environment
    Framework :: Flask
    Intended Audience :: Developers
    License :: OSI Approved :: BSD License
    Operating System :: OS Independent
    Programming Language :: Python
    Topic :: Internet :: WWW/HTTP :: Dynamic Content
    Topic :: Internet :: WWW/HTTP :: WSGI
    Topic :: Internet :: WWW/HTTP :: WSGI :: Application
    Topic :: Software Development :: Libraries :: Application Frameworks

[options]
packages = find:
    package_dir = = src
    include_package_data = True
    python_requires = >= 3.7

[options.packages.find]
where = src

[options.entry_points]
console_scripts =
    flask = flask.cli:main

[tool:pytest]
testpaths = tests
    filterwarnings =
        error

[coverage:run]
branch = True
source =
    flask
tests

[coverage:paths]
source =
    src
    */site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
    E203
You'll use the same techniques you learned about when writing the authentication blueprint to write the blog blueprint. The blog should
list all posts, allow logged in users to create posts, and allow the
author of a post to edit or delete it.

As you implement each view, keep the development server running. As you
save your changes, try going to the URL in your browser and testing them
out.

The Blueprint
-------------

Define the blueprint and register it in the application factory.

```python
from flask import (Blueprint, flash, g, redirect, render_template, request, url_for)
from werkzeug.exceptions import abort
from flaskr.auth import login_required
from flaskr.db import get_db

bp = Blueprint('blog', __name__)
```

Import and register the blueprint from the factory using
:meth:`app.register_blueprint()` `Flask.register_blueprint``. Place the
new code at the end of the factory function before returning the app.

```python
def create_app():
    app = ...
    # existing code omitted

    from . import blog
    app.register_blueprint(blog.bp)
    app.add_url_rule('/', endpoint='index')

    return app
```

Unlike the auth blueprint, the blog blueprint does not have a
``url_prefix``. So the ``index`` view will be at ``/``, the ``create``
view at ``/create```, and so on. The blog is the main feature of Flaskr,
so it makes sense that the blog index will be the main index.
However, the endpoint for the ``index`` view defined below will be `blog.index`. Some of the authentication views referred to a plain ``index`` endpoint. :meth:`app.add_url_rule() <Flask.add_url_rule>` associates the endpoint name ``'index'`` with the ``/`` url so that ``url_for('index')`` or ``url_for('blog.index')`` will both work, generating the same ``/`` URL either way.

In another application you might give the blog blueprint a `url_prefix` and define a separate ``index`` view in the application factory, similar to the ``hello`` view. Then the ``index`` and ``blog.index`` endpoints and URLs would be different.

Index
-----

The index will show all of the posts, most recent first. A `JOIN` is used so that the author information from the `user` table is available in the result.

```python
@bp.route('/')
def index():
    db = get_db()
    posts = db.execute(
        'SELECT p.id, title, body, created, author_id, username'
        ' FROM post p JOIN user u ON p.author_id = u.id'
        ' ORDER BY created DESC'
    ).fetchall()
    return render_template('blog/index.html', posts=posts)
```

```html
{% extends 'base.html' %}
{% block header %}
<h1>{% block title %}Posts{% endblock %}</h1>
{% if g.user %}
    <a class="action" href="{{ url_for('blog.create') }}">New</a>
{% endif %}
{% endblock %}

{% block content %}
{% for post in posts %}
<article class="post">
```

{% extends 'base.html' %}
{% block header %}
<h1>{% block title %}Posts{% endblock %}</h1>
{% if g.user %}
    <a class="action" href="{{ url_for('blog.create') }}">New</a>
{% endif %}
{% endblock %}

{% block content %}
{% for post in posts %}
<article class="post">
```
When a user is logged in, the `header` block adds a link to the `create` view. When the user is the author of a post, they'll see an "Edit" link to the `update` view for that post. `loop.last` is a special variable available inside Jinja for loops. It's used to display a line after each post except the last one, to visually separate them.

.. _Jinja for loops: https://jinja.palletsprojects.com/templates/#for

Create
------

The `create` view works the same as the auth `register` view. Either the form is displayed, or the posted data is validated and the post is added to the database or an error is shown.

The `login_required` decorator you wrote earlier is used on the blog views. A user must be logged in to visit these views, otherwise they will be redirected to the login page.

.. code-block:: python
   :caption: `flaskr/blog.py`

   @bp.route('/create', methods=('GET', 'POST'))
   @login_required
def create():
    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None
if not title:
    error = 'Title is required.'

if error is not None:
    flash(error)
else:
    db = get_db()
    db.execute(
        'INSERT INTO post (title, body, author_id)
        VALUES (?, ?, ?),
        (title, body, g.user['id'])
    )
    db.commit()
    return redirect(url_for('blog.index'))

return render_template('blog/create.html')

.. code-block:: html+jinja

{% extends 'base.html' %}

{% block header %}
<h1>{% block title %}New Post{% endblock %}</h1>
{% endblock %}

{% block content %}
<form method="post">
    <label for="title">Title</label>
    <input name="title" id="title" value="{{ request.form['title'] }}" required>
    <label for="body">Body</label>
    <textarea name="body" id="body">{{ request.form['body'] }}</textarea>
    <input type="submit" value="Save">
</form>
{% endblock %}

Update
------

Both the `update` and `delete` views will need to fetch a `post` by `id` and check if the author matches the logged in user. To avoid duplicating code, you can write a function to get the `post` and call it from each view.

.. code-block:: python

    :caption: ``flaskr/blog.py``
def get_post(id, check_author=True):
    post = get_db().execute("SELECT p.id, title, body, created, author_id, username" +
        " FROM post p JOIN user u ON p.author_id = u.id" +
        " WHERE p.id = ?",
        (id,)).fetchone()
    if post is None:
        abort(404, f"Post id {id} doesn't exist.")
    if check_author and post['author_id'] != g.user['id']:
        abort(403)
    return post

@func:`abort` will raise a special exception that returns an HTTP status code. It takes an optional message to show with the error, otherwise a default message is used. "404" means "Not Found", and "403" means "Forbidden". ("401" means "Unauthorized", but you redirect to the login page instead of returning that status.)

The `check_author` argument is defined so that the function can be used to get a `post` without checking the author. This would be useful if you wrote a view to show an individual post on a page, where the user doesn't matter because they're not modifying the post.

```python
@bp.route('/<int:id>/update', methods=('GET', 'POST'))
@login_required
def update(id):
    post = get_post(id)

    if request.method == 'POST':
        title = request.form['title']
        body = request.form['body']
        error = None

        if not title:
            error = 'Title is required.'

        if error is not None:
            flash(error)
        else:
            db = get_db()

```
db.execute(
    'UPDATE post SET title = ?, body = ?
    WHERE id = ?',
    (title, body, id)
)
db.commit()
return redirect(url_for('blog.index'))

return render_template('blog/update.html', post=post)

Unlike the views you've written so far, the `update` function takes an argument, `id`. That corresponds to the `<int:id>` in the route. A real URL will look like `/1/update`. Flask will capture the `1`, ensure it's an :class:`int`, and pass it as the `id` argument. If you don't specify `int:` and instead do `<id>`, it will be a string.

To generate a URL to the update page, :func:`url_for` needs to be passed the `id` so it knows what to fill in:
``url_for('blog.update', id=post['id'])``. This is also in the `index.html` file above.

The `create` and `update` views look very similar. The main difference is that the `update` view uses a `post` object and an `UPDATE` query instead of an `INSERT`. With some clever refactoring, you could use one view and template for both actions, but for the tutorial it's clearer to keep them separate.

.. code-block:: html+jinja
   :caption: `flaskr/templates/blog/update.html`

```html
{% extends 'base.html' %}

{% block header %}
<h1>{% block title %}Edit "{{ post['title'] }}"{% endblock %}</h1>
{% endblock %}

{% block content %}
<form method="post">
   <label for="title">Title</label>
   <input name="title" id="title" value="{{ request.form['title'] or post['title'] }}" required>
   <label for="body">Body</label>
   <textarea name="body" id="body">{{ request.form['body'] or post['body'] }}</textarea>
   <input type="submit" value="Save">
</form>

<hr>
<form action="{{ url_for('blog.delete', id=post['id']) }}" method="post">
   <input class="danger" type="submit" value="Delete" onclick="return confirm('Are you sure?');">
</form>
```
This template has two forms. The first posts the edited data to the current page (``/<id>/update```). The other form contains only a button and specifies an `action` attribute that posts to the delete view instead. The button uses some JavaScript to show a confirmation dialog before submitting.

The pattern ``{{ request.form['title'] or post['title'] }}`` is used to choose what data appears in the form. When the form hasn't been submitted, the original `post` data appears, but if invalid form data was posted you want to display that so the user can fix the error, so `request.form` is used instead. :data:`request` is another variable that's automatically available in templates.

Delete
------

The delete view doesn't have its own template, the delete button is part of `update.html` and posts to the `/<id>/delete` URL. Since there is no template, it will only handle the `POST` method and then redirect to the `index` view.

```python
@bp.route('/<int:id>/delete', methods=('POST',))
@login_required
def delete(id):
    get_post(id)
    db = get_db()
    db.execute('DELETE FROM post WHERE id = ?', (id,))
    db.commit()
    return redirect(url_for('blog.index'))
```

Congratulations, you've now finished writing your application! Take some time to try out everything in the browser. However, there's still more to do before the project is complete.

Continue to :doc:`install`.

Found in path(s):
* /opt/cola/permits/1297656609_1650268710.38/0/flask-2-1-1-tar-gz/Flask-2.1.1/docs/tutorial/blog.rst

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Flask Extension Development

==================================
Flask, being a microframework, often requires some repetitive steps to get a third party library working. Many such extensions are already available on `PyPI`.

If you want to create your own Flask extension for something that does not exist yet, this guide to extension development will help you get your extension running in no time and to feel like users would expect your extension to behave.

Anatomy of an Extension

---

Extensions are all located in a package called "flask_something" where "something" is the name of the library you want to bridge. So for example if you plan to add support for a library named `simplexml` to Flask, you would name your extension's package "flask_simplexml".

The name of the actual extension (the human readable name) however would be something like "Flask-SimpleXML". Make sure to include the name "Flask" somewhere in that name and that you check the capitalization. This is how users can then register dependencies to your extension in their :file:`setup.py` files.

But what do extensions look like themselves? An extension has to ensure that it works with multiple Flask application instances at once. This is a requirement because many people will use patterns like the :doc:`/patterns/appfactories` pattern to create their application as needed to aid unittests and to support multiple configurations. Because of that it is crucial that your application supports that kind of behavior.

Most importantly the extension must be shipped with a :file:`setup.py` file and registered on PyPI. Also the development checkout link should work so that people can easily install the development version into their virtualenv without having to download the library by hand.

Flask extensions must be licensed under a BSD, MIT or more liberal license in order to be listed in the Flask Extension Registry. Keep in mind that the Flask Extension Registry is a moderated place and libraries will be reviewed upfront if they behave as required.

"Hello Flaskext!"

---

So let's get started with creating such a Flask extension. The extension we want to create here will provide very basic support for SQLite3.
First we create the following folder structure:

    flask-sqlite3/
    flask_sqlite3.py
    LICENSE
    README

Here's the contents of the most important files:

setup.py
```````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````

The next file that is absolutely required is the `setup.py` file which is used to install your Flask extension. The following contents are something you can work with:

```python
Flask-SQLite3
-------------

This is the description for that library
`````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````
That's a lot of code but you can really just copy/paste that from existing extensions and adapt.

Now this is where your extension code goes. But how exactly should such an extension look like? What are the best practices? Continue reading for some insight.

Initializing Extensions
------------------------

Many extensions will need some kind of initialization step. For example, consider an application that's currently connecting to SQLite like the documentation suggests (:doc:`/patterns/sqlite3`). So how does the extension know the name of the application object?

Quite simple: you pass it to it.

There are two recommended ways for an extension to initialize:

- initialization functions:

  If your extension is called `helloworld` you might have a function called ``init_helloworld(app[, extra_args])`` that initializes the extension for that application. It could attach before / after handlers etc.

- classes:

  Classes work mostly like initialization functions but can later be used to further change the behavior.

What to use depends on what you have in mind. For the SQLite 3 extension we will use the class-based approach because it will provide users with an object that handles opening and closing database connections.

When designing your classes, it's important to make them easily reusable at the module level. This means the object itself must not under any circumstances store any application specific state and must be shareable
between different applications.

The Extension Code
-------------------

Here's the contents of the `flask_sqlite3.py` for copy/paste::

```python
import sqlite3
from flask import current_app, _app_ctx_stack

class SQLite3(object):
    def __init__(self, app=None):
        self.app = app
        if app is not None:
            self.init_app(app)

    def init_app(self, app):
        app.config.setdefault('SQLITE3_DATABASE', ':memory:')(a
        app.teardown_appcontext(self.teardown)

    def connect(self):
        return sqlite3.connect(current_app.config['SQLITE3_DATABASE'])

    def teardown(self, exception):
        ctx = _app_ctx_stack.top
        if hasattr(ctx, 'sqlite3_db'):
            ctx.sqlite3_db.close()

@property
    def connection(self):
        ctx = _app_ctx_stack.top
        if ctx is not None:
            if not hasattr(ctx, 'sqlite3_db'):
                ctx.sqlite3_db = self.connect()
        return ctx.sqlite3_db

@contextmanager
    def __call__(self):
        ctx = _app_ctx_stack.top
        try:
            if ctx is not None:
                if not hasattr(ctx, 'sqlite3_db'):
                    ctx.sqlite3_db = self.connect()
                    yield
                else:
                    yield ctx.sqlite3_db
        finally:
            if self.teardown:
                self.teardown()

def make_sqlite3(app):
    return SQLite3(app)

def _get_sqlite3(app):
    if not hasattr(app, '_sqlite3'):
        app._sqlite3 = make_sqlite3(app)
    return app._sqlite3
```

So here's what these lines of code do:

1. The ``__init__`` method takes an optional app object and, if supplied, will call ``init_app``.
2. The ``init_app`` method exists so that the ``SQLite3`` object can be instantiated without requiring an app object. This method supports the factory pattern for creating applications. The ``init_app`` will set the configuration for the database, defaulting to an in memory database if no configuration is supplied. In addition, the ``init_app`` method attaches the ``teardown`` handler.
3. Next, we define a `connect` method that opens a database connection.
4. Finally, we add a `connection` property that on first access opens the database connection and stores it on the context. This is also the recommended way to handling resources: fetch resources lazily the first time they are used.

Note here that we're attaching our database connection to the top application context via `__app_ctx_stack.top`. Extensions should use the top context for storing their own information with a sufficiently complex name.

So why did we decide on a class-based approach here? Because using our extension looks something like this:

```python
from flask import Flask
from flask_sqlite3 import SQLite3

app = Flask(__name__)
app.config.from_pyfile('the-config.cfg')
db = SQLite3(app)
```

You can then use the database from views like this:

```python
@app.route('/')
def show_all():
    cur = db.connection.cursor()
    cur.execute(...)
```

Likewise if you are outside of a request you can use the database by pushing an app context:

```python
with app.app_context():
    cur = db.connection.cursor()
    cur.execute(...)
```

At the end of the `with` block the teardown handles will be executed automatically.

Additionally, the `init_app` method is used to support the factory pattern for creating apps:

```python
db = SQLite3()
# Then later on.
app = create_app('the-config.cfg')
db.init_app(app)
```

Keep in mind that supporting this factory pattern for creating apps is required for approved flask extensions (described below).
.. admonition:: Note on ``init_app``

As you noticed, ``init_app`` does not assign ``app`` to ``self``. This is intentional! Class based Flask extensions must only store the application on the object when the application was passed to the constructor. This tells the extension: I am not interested in using multiple applications.

When the extension needs to find the current application and it does not have a reference to it, it must either use the :data:`~flask.current_app` context local or change the API in a way that you can pass the application explicitly.

Using _app_ctx_stack
---------------------

In the example above, before every request, a ``sqlite3_db`` variable is assigned to ``_app_ctx_stack.top``. In a view function, this variable is accessible using the ``connection`` property of ``SQLite3``. During the teardown of a request, the ``sqlite3_db`` connection is closed. By using this pattern, the *same* connection to the sqlite3 database is accessible to anything that needs it for the duration of the request.

Learn from Others
-----------------

This documentation only touches the bare minimum for extension development. If you want to learn more, it's a very good idea to check out existing extensions on the `PyPI`_. If you feel lost there is still the `mailinglist`_ and the `Discord server`_ to get some ideas for nice looking APIs. Especially if you do something nobody before you did, it might be a very good idea to get some more input. This not only generates useful feedback on what people might want from an extension, but also avoids having multiple developers working in isolation on pretty much the same problem.

Remember: good API design is hard, so introduce your project on the mailing list, and let other developers give you a helping hand with designing the API.

The best Flask extensions are extensions that share common idioms for the API. And this can only work if collaboration happens early.

Approved Extensions
---------------------
Flask previously had the concept of approved extensions. These came with some vetting of support and compatibility. While this list became too difficult to maintain over time, the guidelines are still relevant to all extensions maintained and developed today, as they help the Flask ecosystem remain consistent and compatible.

0. An approved Flask extension requires a maintainer. In the event an extension author would like to move beyond the project, the project should find a new maintainer and transfer access to the repository, documentation, PyPI, and any other services. If no maintainer is available, give access to the Pallets core team.

1. The naming scheme is *Flask-ExtensionName* or *ExtensionName-Flask*. It must provide exactly one package or module named `flask_extension_name`.

2. The extension must be BSD or MIT licensed. It must be open source and publicly available.

3. The extension’s API must have the following characteristics:

   - It must support multiple applications running in the same Python process. Use `current_app` instead of `self.app`, store configuration and state per application instance.
   - It must be possible to use the factory pattern for creating applications. Use the `ext.init_app()` pattern.

4. From a clone of the repository, an extension with its dependencies must be installable with `pip install -e .`.

5. It must ship a testing suite that can be invoked with `tox -e py` or `pytest`. If not using `tox`, the test dependencies should be specified in a `requirements.txt` file. The tests must be part of the sdist distribution.

6. The documentation must use the `flask` theme from the `Official Pallets Themes`_. A link to the documentation or project website must be in the PyPI metadata or the readme.

7. For maximum compatibility, the extension should support the same versions of Python that Flask supports. 3.7+ is recommended as of December 2021. Use `python_requires=">= 3.7"` in `setup.py` to indicate supported versions.

   .. _PyPI: https://pypi.org/search/?c=Framework+%3A%3A+Flask
   .. _mailinglist: https://mail.python.org/mailman/listinfo/flask
   .. _Discord server: https://discord.gg/pallets
   .. _Official Pallets Themes: https://pypi.org/project/Pallets-Sphinx-Themes/

Found in path(s):
* /opt/cola/permits/1297656609_1650268710.38/0/flask-2-1-1-tar-gz/Flask-2.1.1/docs/extensiondev.rst
1.222 jansi 2.4.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Specification-Title: jansi
Specification-Version: 2.4
Specification-Vendor: FuseSource, Corp.
Implementation-Title: jansi
Implementation-Version: 2.4.0
Implementation-Vendor: FuseSource, Corp.
Automatic-Module-Name: org.fusesource.jansi
Bundle-Description: Jansi is a java library for generating and interpreting ANSI escape sequences.
Bundle-DocURL: http://fusesource.com/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: jansi
Bundle-SymbolicName: org.fusesource.jansi
Bundle-Vendor: FuseSource, Corp.
Bundle-Version: 2.4.0
Export-Package: org.fusesource.jansi;uses="org.fusesource.jansi.io";version="2.4.0";org.fusesource.jansi.internal;version="2.4.0";org.fusesource.jansi.io;uses="org.fusesource.jansi";version="2.4.0"
Main-Class: org.fusesource.jansi.AnsiMain
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-5.1.1.202006162103

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1.223 logstash-filter-http 1.4.0

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The following is a list of people who have contributed ideas, code, bug reports, or in general have helped logstash along its way.

Contributors:
* Aaron Mildenstein (untergeek)
* Pier-Hugues Pellerin (ph)

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1.224 ca-certificates 20190110~18.04.1

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1.225 jackson-xc 2.10.4

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### 1.232 adduser 3.115

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Since May 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

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1.239 certifi 2021.10.08

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This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCA CertificateFile.#

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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.240 fasttemplate 1.2.1

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1.241 utils 0.0.0-20211116205334-6203023598ed

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1.242 prometheus-client 0.2.0
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1.248 javax-ws-rs-api 2.1.1

1.249 graphite 1.3.13-11build1

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*/

1.250 python-requests 2.18.4

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1.251 curl 7.80.0-r1

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1.252 apt 1.6.8

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# Contributions to the urllib3 project

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## Contributors

In chronological order:

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* 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>
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* Brandon Rhodes <http://rhodesmill.org/brandon>
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* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * 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@ravellosystems.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 <graflatcolmingov@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 Vandenberg <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 <sethmichaelarson@protonmail.com>
  * Created selectors backport that supports PEP 475.

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

* Moinuddin Quadri <moinl8@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 vending

* 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 `urlib2.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.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying `SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)
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1.257 psutil 5.0.1-1

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1.258 python-pip 9.0.1

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1.259 glibc 2.31-0ubuntu9.7

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

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

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

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

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

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

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

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

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

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

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That's all there is to it!

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

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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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source: https://github.com/msgpack/msgpack-ruby/blob/v1.2.4/ext/msgpack/

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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# 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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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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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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  1dc9e472e19acfe6dc7f41e429236e7eefceda1-libc-netbsd-resolv-resolv-zip/bionic-
  1dc9e472e19acfe6dc7f41e429236e7eefceda1-libc-netbsd-resolv/res_init.c

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* Theo de Raadt <deraadt@openbsd.org> came up with the idea of using
* such a mathematical system to generate more random (yet non-repeating)
* ids to solve the resolver/named problem. But Niels designed the
* actual system based on the constraints.
*
* Later modified by Damien Miller to wrap the LCG output in a 15-bit
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* /opt/ws_local/PERMITS_SQL/1049871717_1591824386.65/0/bionic-1dc9e472e19acfe6dc7f41e429236e7eeff7ceda1-libc-netbsd-resolv-1dc9e472e19acfe6dc7f41e429236e7eeff7ceda1-libc-netbsd-resolv/__res_send.c
* /opt/ws_local/PERMITS_SQL/1049871717_1591824386.65/0/bionic-1dc9e472e19acfe6dc7f41e429236e7eeff7ceda1-libc-netbsd-resolv-1dc9e472e19acfe6dc7f41e429236e7eeff7ceda1-libc-netbsd-resolv/__dn_comp.c

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 * /opt/ws_local/PERMITS_SQL/1049871717_1591824386.65/0/bionic-1dc9e472e19acfe6dc7f41e429236e7ee7ceda1-libc-netbsd-resolv-zip/bionic-1dc9e472e19acfe6dc7f41e429236e7ee7ceda1-libc-netbsd-resolv/res_state.c
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* /opt/ws_local/PERMITS_SQL/1049871717_1591824386.65/0/bionic-1dc9e472e19acfe6dc7f41e429236e7ee7ceda1-libc-netbsd-resolv-zip/bionic-1dc9e472e19acfe6dc7f41e429236e7ee7ceda1-libc-netbsd-resolv/res_comp.c
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1.264 multipart-post 2.1.1

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ar/com/google/cloud/ServiceDefaults.java
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ar/com/google/cloud/PlatformInformation.java
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 */

Found in path(s):
* /opt/cola/permits/1271127049_1644877354.56/0/google-cloud-core-1-95-4-sources-
ar/com/google/cloud/StringEnumValue.java
* /opt/cola/permits/1271127049_1644877354.56/0/google-cloud-core-1-95-4-sources-
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* /opt/cola/permits/1271127049_1644877354.56/0/google-cloud-core-1-95-4-sources-
ar/com/google/cloud/MetadataConfig.java
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* /opt/cola/permits/1271127049_1644877354.56/0/google-cloud-core-1-95-4-sources-jar/com/google/cloud/package-info.java
* /opt/cola/permits/1271127049_1644877354.56/0/google-cloud-core-1-95-4-sources-jar/com/google/cloud/RetryOption.java
* /opt/cola/permits/1271127049_1644877354.56/0/google-cloud-core-1-95-4-sources-jar/com/google/cloud/BatchResult.java
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* /opt/cola/permits/1271127049_1644877354.56/0/google-cloud-core-1-95-4-sources-jar/com/google/cloud/Identity.java
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1.268 nghttp2 1.36.0-2+deb10u1

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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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1.269 reflections 0.9.11

1.270 certifi 2021.05.30

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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1.271 python-dateutil 2.5.3-2

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dateutil - Extensions to the standard Python datetime module.

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1.272 structured-merge-diff 4.2.1

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1.273 adduser 3.116ubuntu1

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This package was first put together by Ian Murdock
<imurdock@debian.org> and was maintained by Steve Phillips
<sjp@cvfn.org> from sources written for the Debian Project by Ian
Murdock, Ted Hajek <tedhajek@boombox.micro.umn.edu>, and Sven Rudolph
Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

Since 23 Oct 2005, it has been maintained by Joerg Hoh <joerg@joerghoh.de>

Since June 2006, it has been maintained by Stephen Gran <sgran@debian.org>

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1.274 debianutils 4.8.4
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It is an original Debian package. Programs in it were maintained by
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<schizo@debian.org>.

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1.275 chardet 3.0.4-2.ph4
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# Jackson JSON processor

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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

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1.283 icu 70

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layout: default
title: Legalities
parent: Release & Milestone Tasks
grand_parent: Contributors
nav_order: 70
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See [svn changeset r39632](https://github.com/unicode-org/icu/commit/0001f6c5e92f6f3a8d66c7dbce47cc24df7633a71) for an example; there should be only two files to update.

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## Commands to generate dependency files

```
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)
```

## Flags for position independent code

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

## Additional flags when building libraries and with threads

```
THREADSCPPFLAGS = -D_REENTRANT
LIBCPPFLAGS =
```

## Compiler switch to embed a runtime search path

```
LD_RPATH=
LD_RPATH_PRE=-Wl,-rpath,
```

## Compiler switch to embed a library name

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

## Shared library options

```
LD_SOOPTIONS= -Wl,-Bsymbolic
```

## Shared object suffix

```
SO = so
```

## Non-shared intermediate object suffix

```
STATIC_O = ao
```

## Compilation rules

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

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

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

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

## Dependency rules

```
%.d: $(srcdir)/%.c
  @echo "generating dependency information for $<"
  @$(SHELL) -ec "$(GEN_DEPS.c) $<
  | sed "s/\(~[^()]*\)/\1/" > $@; \n  [ -s $@ ] || rm -f $@
```
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \n | sed "\"s/($")/o \:"A^1.0 $@ : /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) $@

## 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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1.288 python 2.7.15~rc1-1

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This package was put together by Klee Dienes <klee@debian.org> from sources from ftp.python.org:/pub/python, based on the Debianization by the previous maintainers Bernd S. Brentrup <bsb@uni-muenster.de> and Bruce Perens.

Current maintainer is Matthias Klose <doko@debian.org> until the final 2.3 version is released.

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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
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1.290 python-pip 20.1.1

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In 1995, Guido continued his work on Python at the Corporation for
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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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cb-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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***** END LICENSE BLOCK *****
@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $Date: 2011/11/03 15:11:58 $ License

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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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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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
Assorted

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1.295 gorm-io/gorm 1.23.5

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1.296 python-pip 21.2.4

1.296.1 Available under license :
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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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This package contains a modified version of ca-bundle.crt:

cabundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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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
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All Python releases are Open Source (see http://www.opensource.org for
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releases have also been GPL-compatible; the table below summarizes
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1.297 pyasn1 0.4.8

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Metadata-Version: 1.2
Name: pyasn1
Version: 0.4.8
Summary: ASN.1 types and codecs
Home-page: https://github.com/etingof/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: Ilya Etingof <etingof@gmail.com>
License: BSD
Description: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Platform: any
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: Intended Audience :: Education
Classifier: Intended Audience :: Information Technology
Classifier: Intended Audience :: System Administrators
Classifier: Intended Audience :: Telecommunications Industry
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Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.4
Classifier: Programming Language :: Python :: 2.5
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.2
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
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Classifier: Programming Language :: Python :: 3.7
Classifier: Topic :: Communications
Classifier: Topic :: Software Development :: Libraries :: Python Modules

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1.egg-info/PKG-INFO

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ASN.1 library for Python
------------------------

![PyPI](https://img.shields.io/pypi/v/pyasn1.svg?maxAge=2592000)
![Python Versions](https://img.shields.io/pypi/pyversions/pyasn1.svg)
![Build status](https://travis-ci.org/etingof/pyasn1.svg?branch=master)
![Coverage Status](https://img.shields.io/codecov/c/github/etingof/pyasn1.svg)
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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

[ASN.1 specification](https://www.itu.int/rec/dologin_pub.asp?lang=e&id=T-REC-X.208-198811-W!!PDF-E&type=items).

Features
--------

* Generic implementation of ASN.1 types (X.208)
* Standards compliant BER/CER/DER codecs
* Dumps/loads ASN.1 structures from Python types
* 100% Python, works with Python 2.4 up to Python 3.7
* MT-safe
* Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1
-------------------

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed
to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology. Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

The pyasn1 package is designed to help Python programmers tackling network protocols and file formats at the comfort of their Python prompt. The tool struggles to capture all aspects of a rather complicated ASN.1 system and to represent it on the Python terms.

How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
  id           INTEGER,
  room [0] INTEGER OPTIONAL,
  house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
  componentType = NamedTypes(
    NamedType('id', Integer()),
    OptionalNamedType(
      'room', Integer().subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
      ),
    ),
    DefaultedNamedType(
      'house', Integer(0).subtype(
        implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
      )
    )
  )
```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000: 30 07 02 01 7B 80 02 01 41
```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

>>> for field in received_record:
>>>    print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0

>>> record == received_record
True
>>> received_record.update(room=123)
>>> substrate = encode(received_record)
```
The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```python
>>> from pyasn1.codec.native.encoder import encode
>>> encode(record)
{'id': 123, 'room': 321, 'house': 0}
```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
room=321
```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

More information on pyasn1 APIs can be found in the [documentation](http://snmplabs.com/pyasn1/), compiled ASN.1 modules for different protocols and file formats could be found in the [pyasn1-modules](https://github.com/etingof/pyasn1-modules).
If something does not work as expected, [open an issue](https://github.com/etingof/pyasn1/issues) at GitHub or post your question [on Stack Overflow](https://stackoverflow.com/questions/ask) or try browsing pyasn1 [mailing list archives](https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/).

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/test_debug.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/compat/dateandtime.py
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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/pyasn1/codec/native/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/native/__main__.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/tests/codec/der/decoder.py
Abstract Syntax Notation One (ASN.1) is a technology for exchanging structured data in a universally understood,
hardware agnostic way. Many industrial, security and telephony applications heavily rely on ASN.1.

The `pyasn1 <https://pypi.org/project/pyasn1/>`_ library implements ASN.1 support in pure-Python.

What is ASN.1
--------------

ASN.1 is a large, arguably over-engineered and extremely old data modelling and serialisation tool. It is probably among the first serialisation protocols in the history of computer science and technology.

ASN.1 started its life over 30 years ago as a serialisation mechanism for the first electronic mail (known as X.400). Later on if was split off the e-mail application and become a stand-alone tech still being actively supported by its designers and widely used in industry and technology.

Since then ASN.1 is sort of haunted by its relations with the OSI model -- the first, unsuccessful, version of the Internet. You can read many interesting `discussions <https://news.ycombinator.com/item?id=8871453>`_ on that topic.

In the following years, generations of software engineers tackled the serialisation problem many times. We can see that in Google's `ProtoBuffers <https://developers.google.com/protocol-buffers/>`_ or `FlatBuffers <https://google.github.io/flatbuffers/>`_, for example. Interestingly, many new takes on binary protocol design do not depart far from ASN.1 from technical perspective. It's more of a matter of striking a balance between processing overhead, wire format overhead and human readability.

Looking at what ASN.1 has to offer, it has three loosely coupled parts:

* Data types: the standard introduces a collection of basic data types (integers, bits, strings, arrays and records) that can be used for describing arbitrarily complex, nested data structures.

* Serialisation protocols: the above data structures could be converted into a series of octets for storage or transmission over the wire as well as recovered back into their structured form. The system is fully agnostic to hardware architectures differences.

* Schema language: ASN.1 data structures could be described in terms of a schema language for ASN.1 compiler to turn it into platform-specific implementation.

ASN.1 applications
------------------
Being an old and generally successful standard, ASN.1 is widely adopted for many uses. To give you an example, these technologies use ASN.1 for their data exchange needs:

* Signaling standards for the public switched telephone network (SS7 family)
* Network management standards (SNMP, CMIP)
* Directory standards (X.500 family, LDAP)
* Public Key Infrastructure standards (X.509, etc.)
* PBX control (CSTA)
* IP-based Videoconferencing (H.323 family)
* Biometrics (BIP, CBEFF, ACBio)
* Intelligent transportation (SAE J2735)
* Cellular telephony (GSM, GPRS/EDGE, UMTS, LTE)

ASN.1 gotchas
-------------

Apparently, ASN.1 is hard to implement properly. Quality open-source ASN.1 tools are rare, but ad-hoc implementations are numerous. Judging from the statistics on discovered security vulnerabilities, many people have implemented ASN.1 parsers and oftentimes fell victim to its edge cases.

On the bright side, ASN.1 has been around for a long time, it is well understood and security reviewed.

Documentation
-------------

.. toctree::
   :maxdepth: 2

/pyasn1/contents

Use case
-------

.. toctree::
   :maxdepth: 2

/example-use-case

Download & Install
------------------

.. toctree::
   :maxdepth: 2
Changes
-------

All changes and release history is maintained in changelog. There you could also download the latest unreleased pyasn1 tarball containing the latest fixes and improvements.

License
-------

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Getting help
------------


Books on ASN.1
---------------

The pyasn1 implementation is largely based on reading up the following awesome books:

* `ASN.1 - Communication between heterogeneous systems <http://www.oss.com/asnl/dubuisson.html>` by Olivier Dubuisson

Here you can get the official standards which is hard to read:

On the other end of the readability spectrum, here is a quick and sweet write up:


If you are working with ASN.1, we'd highly recommend reading a proper book on the subject.

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* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0-4-8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

1.298 webencodings 0.5

1.298.1 Available under license:

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from setuptools import setup, find_packages
import io
import os
import re

VERSION = re.search("VERSION = '([^']+)'", io.open(path.join(path.dirname(__file__), 'webencodings', '__init__.py'), encoding='utf-8').read().strip()).group(1)

LONG_DESCRIPTION = io.open(path.join(path.dirname(__file__), 'README.rst'), encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
    ]
)
This is a Python implementation of the `WHATWG Encoding standard`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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In order to be compatible with legacy web content when interpreting something like `"Content-Type: text/html; charset=latin1"`, tools need to use a particular set of aliases for encoding labels as well as some overriding rules. For example, `"US-ASCII"` and `"iso-8859-1"` on the web are actually aliases for `"windows-1252"`, and an UTF-8 or UTF-16 BOM takes precedence over any other encoding declaration.

The Encoding standard defines all such details so that implementations do not have to reverse-engineer each other.

This module has encoding labels and BOM detection, but the actual implementation for encoders and decoders is Pythons.

---

.. _Encoding standard: http://encoding.spec.whatwg.org/
No license file was found, but licenses were detected in source scan.

Metadata-Version: 1.1
Name: webencodings
Version: 0.5
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Simon Sapin
Author-email: simon.sapin@exyr.org
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
<http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
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In order to be compatible with legacy web content
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tools need to use a particular set of aliases for encoding labels
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over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 3
Regenerate the webencodings.labels module.

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---

import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""
    ---

webencodings.labels
~~~~~~~~~~~~~~~~~~~

Map encoding labels to their name.

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---

# XXX Do not edit!
# This file is automatically generated by mklabels.py
LABELS = {
    ""
}
labels = [
    (repr(assert_lower(label)).lstrip('u'),
     repr(encoding['name']).lstrip('u'))
    for category in json.loads(urlopen(url).read().decode('ascii'))
    for encoding in category['encodings']
    for label in encoding['labels']]
max_len = max(len(label) for label, name in labels)
parts.extend(
    '%s:%s %s,
    ' % (label, ' ' * (max_len - len(label)), name)
    for label, name in labels)
parts.append('}
return ''.join(parts)

if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1121503976_1610155523.01/0/webencodings-0-5-tar-gz/webencodings-0.5/webencodings/mklabels.py

1.299 logstash-input-s3 3.8.3

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Contributors:
* Aaron Mildenstein (untergeek)
* Adam Tucker (adamjt)
* John Pariseau (ururk)
* Jordan Sissel (jordansissel)
* Mathieu Guillaume (mguillaume)
* Pier-Hugues Pellerin (ph)
* Richard Pijnenburg (electrical)
* Suyog Rao (suyograo)
* Ted Timmons (tedder)
* Ryan O'Keeffe (danielredoak)
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1.300 xterm 353-1ubuntu1.20.04.2

1.300.1 Available under license :
Upstream source https://invisible-island.net/xterm/xterm.html

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file: charclass.
Markus Kuhn -- 2000-07-03

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-- vile: txtmode

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

1.301 urllib3 1.22

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## 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/@WBRSRIBZDhBFQxB6/>
  * Code review, PEP8 compliance, benchmark fix

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

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

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

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

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

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * 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 test suite

* 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@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://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 <juanyech@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 <http://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 <http://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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* 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 Vandenberg <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

* Jesse 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

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

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1.302 mergo 0.3.5

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import: ../../../../fossene/db/schema/thing.yml

fields:
  site: string
  author: root

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For the files wingetopt.c wingetopt.h downloaded from https://github.com/alex85k/wingetopt

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 * Version 1.1 1 Aug 2013 Mark Adler
 */

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Mark Adler
madler@alumni.caltech.edu
*/

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

LZ4 Library
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regexp.c and regexp.h from https://github.com/ccxvii/minilibs sha 875c33568b5a4aa4fb3dd0c52ea98f7f0e5ca684

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    //
package spec

import {
    "encoding/json"
    "testing"
    "github.com/stretchr/testify/assert"
}

var license = License{
    LicenseProps: LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}
}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {
    // const licenseYAML = "name: the name\nurl: the url"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }
}

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package spec

import {
  "encoding/json"

  "github.com/go-openapi/swag"
}

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
  LicenseProps
  VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
  Name string `json:"name,omitempty"`
  URL  string `json:"url,omitempty"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
  if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
    return err
  }
  return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
  b1, err := json.Marshal(l.LicenseProps)
  if err != nil {
    return nil, err
  }
  b2, err := json.Marshal(l.VendorExtensible)
  if err != nil {
    return nil, err
  }
  return []byte{}, nil
}
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Gocheck - A rich testing framework for Go

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1.311 jts-core 1.15.0

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1.312 e2fsprogs 1.43.4 2+deb9u1

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===================================================================
--- 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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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

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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1.319 mawk 1.3.3 17+b3

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

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1.323 openssl 1.0.2n-1ubuntu5.2

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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

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  jar/com/thoughtworks/paranamer/ParameterNamesNotFoundException.java
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1.333 rapidxml 1.13

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1.335 libxv 1.0.11-1

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1.336 puma 5.6.4

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1.339 neko-html 1.9.21
1.340 murmur-hash 0.1.6

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C port of Murmur3 hash

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

This is a port of the [Murmur3](http://code.google.com/p/smhasher/wiki/MurmurHash3) hash function. Murmur3 is a non-cryptographic hash, designed to be fast and excellent-quality for making things like hash tables or bloom filters. This is a port of the original C++ code, designed for Visual Studio, into standard C that gcc can compile efficiently.

How to use it

-----------

Just compile and link your program with `murmur3.c`, and be sure to include `murmur3.h` to get the function prototypes. There are three hash functions:

```c
void MurmurHash3_x86_32 (const void *key, int len, uint32_t seed, void *out);

void MurmurHash3_x86_128(const void *key, int len, uint32_t seed, void *out);

void MurmurHash3_x64_128(const void *key, int len, uint32_t seed, void *out);
```

All three of these functions have the same interface: you give them `key`, a pointer to the data you wish to hash; `len`, the length in bytes; `seed`, an arbitrary seed number which you can use to tweak the hash, and `out`, a pointer to a buffer big enough to hold the hash's output value.

The hash functions differ in both their internal mechanisms and in their outputs. They are specialized for different use cases:

**MurmurHash3_x86_32** has the lowest throughput, but also the lowest latency. If you're making a hash table that usually has small keys, this is probably the one you want to use on 32-bit machines. It has a 32-bit output.

**MurmurHash3_x86_128** is also designed for 32-bit systems, but produces a 128-bit output, and has about 30% higher throughput than the previous hash. Be warned, though, that its latency for a single 16-byte key is about 86% longer!

**MurmurHash3_x64_128** is the best of the lot, if you're using a 64-bit machine. Its throughput is 250% higher than MurmurHash3_x86_32, but it has roughly the same latency. It has a 128-bit output.
The hash functions are designed to work efficiently on x86 processors; in particular, they make some assumptions about the endianness of the processor, and about the speed of unaligned reads. If you have problems running this code on non-x86 architectures, it should be possible to modify it to work correctly and efficiently -- I just don't have access to those machines for testing. The code in `murmur3.c` is pretty straightforward, and shouldn't be too hard to alter.

There is an example program, `example.c`, which you can look at and play with. You can build it with the makefile.

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

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1.342 libunistring 0.9.9 0ubuntu2

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1.346 logstash-output-stdout 3.1.4

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1.348 readline 8.1.1-r0

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1.351 libsepol 2.7-1ubuntu0.1

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1.354 iputils 20161105 1ubuntu3

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*******************
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*******************

History of the software
========================

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

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

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

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

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

Sockets
-------

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

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

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

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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
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  version is still 5 times faster, though.
- Arguments more compliant with Python standard

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

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SipHash24
--------

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

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

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

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

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

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zlib

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

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

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1.361 commons-lang3 3.1

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Metadata-Version: 2.1
Name: MarkupSafe
Version: 2.1.0
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
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Classifier: Development Status :: 5 - Production/Stable
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Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.7
Description-Content-Type: text/x-rst
License-File: LICENSE.rst

---

MarkupSafe
==========

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing
-----------

Install and update using `pip`:

```
.. code-block:: text

   pip install -U MarkupSafe
```
Examples
--------

```pycon
>>> from markupsafe import Markup, escape

>>> # escape replaces special characters and wraps in Markup
>>> escape('<script>alert(document.cookie);</script>')
Markup('<script>alert(document.cookie);</script>]

>>> # wrap in Markup to mark text "safe" and prevent escaping
>>> Markup("<strong>Hello</strong>")
Markup('<strong>Hello</strong>

>>> escape(Markup("<strong>Hello</strong>"))
Markup('<strong>Hello</strong>

>>> # Markup is a str subclass
>>> # methods and operators escape their arguments
>>> template = Markup("Hello <em>{name}</em>")
>>> template.format(name='"World"')
Markup('Hello <em>&#34;World&#34;</em>

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Links
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- Documentation: https://markupsafe.palletsprojects.com/
- Changes: https://markupsafe.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/MarkupSafe/
- Source Code: https://github.com/pallets/markupsafe/
- Issue Tracker: https://github.com/pallets/markupsafe/issues/
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[metadata]
name = MarkupSafe
version = attr: markupsafe.__version__
url = https://palletsprojects.com/p/markupsafe/
project_urls =
    Donate = https://palletsprojects.com/donate
    Documentation = https://markupsafe.palletsprojects.com/
    Changes = https://markupsafe.palletsprojects.com/changes/
    Source Code = https://github.com/pallets/markupsafe/
    Issue Tracker = https://github.com/pallets/markupsafe/issues/
    Twitter = https://twitter.com/PalletsTeam
    Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Safely add untrusted strings to HTML/XML markup.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Environment :: Web Environment
    Intended Audience :: Developers
    License :: OSI Approved :: BSD License
    Operating System :: OS Independent
    Programming Language :: Python
    Topic :: Internet :: WWW/HTTP :: Dynamic Content
    Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
    package_dir = = src
    include_package_data = True
    python_requires = >= 3.7

[options.packages.find]
where = src
[tool:pytest]
testpaths = tests
filterwarnings = error

[coverage:run]
branch = True
source = markupsafe
tests

[coverage:paths]
source = src
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore = E203
E501
E722
W503
max-line-length = 80

[mypy]
files = src/markupsafe
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[egg_info]
tag_build =
tag_date = 0
1.366 treeprint 0.0.0-20181112141820-a009c3971eca
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1.367 libglapi-mesa 21.2.6-
0ubuntu0.1~20.04.2
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# SOFTWARE.

libfreedreno_layout = static_library(
    'freedreno_layout',
    [    'fd5_layout.c',
    'fd6_layout.c',
    'freedreno_layout.c',
    ],
    include_directories : [inc_freereno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
    c_args : [no_override_init_args],
    gnu_symbol_visibility : 'hidden',
    dependencies : [idep_nir_headers, idep_mesautil],
)
build_by_default : false,
)

foreach major : ['5', '6']
test(
  'fd' + major + '_layout',
  executable(
    'fd' + major + '_layout',
    [ 
      'fd_layout_test.c',
      'fd' + major + '_layout_test.c',
      freedreno_xml_header_files,
    ],
    link_with: libfreedreno_layout,
    dependencies : idep_mesautil,
    include_directories: [ 
      inc_include,
      inc_src,
      inc_mapi,
      inc_mesa,
      inc_gallium,
      inc_gallium_aux,
      inc_freedreno,
    ],
    suite : ['freedreno'],
  )
endforeach
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1.368 appdirs 1.4.3

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1.369 isorelax 20090621

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Found in path(s):
* /opt/cola/permits/1135864262_1613618257.27/0/isorelax-20090621-sources-1-
jar/org/iso_relax/diunster/lslandSchemaReader.java
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/*
 * @(#)Id: IgnoredSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
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/*
 * @(#)Id: Dispatcher.java,v 1.6 2003/05/30 23:46:32 kkawa Exp $
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  jar/org/iso_relax/dispatcher/impl/DispatcherImpl.java

1.370 gommon-color 0.3.1.0

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1.371 libxcb-randr0 1.14-2

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1.372 cron 3.0pl1 136ubuntu1

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Read the comments at the top of the Makefile, then edit the area marked 'configurable stuff'.

Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands under most BSD's, `crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `-r' option stands for 'replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up /etc/cron. Comment it out and add a line to start the new cron daemon -- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron (or whatever); no `&' is needed since the daemon forks itself and the process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX, you will need the public-domain "libndir", found in the B News source and in any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3.0pl1-tar-bz2/cron-3.0pl1-tar-gz/cron-3.0pl1.orig/INSTALL
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# */
Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Paul Vixie

This is a version of 'cron' that is known to run on BSD 4.23 systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A message is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:

Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
build new crontabs using /usr/lib/(crontab,crontab.local)
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)

watch it. test it with `crontab -r` and watch the daemon track your changes.
if you like it, change your `/etc/{rc,rc.local}` to use it instead of the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp$

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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/externs.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/pathnames.h

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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/env.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/misc.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/job.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/entry.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/config.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/database.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/cron.h
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/user.c
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/compat.c

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*/

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*/opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h

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 /* */
 /* $Id: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $
 /*

Found in path(s):
* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0pl1-orig-tar-bz2/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/crontab.5

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 /* $Id: cron.8,v 2.2 1993/12/28 08:34:43 vixie Exp $
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* /opt/cola/permits/1223164981_1635867556.65/0/cron-3-0p11-orig-tar-bz2/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/cron.8

1.373 simpleclient-common 0.0.26

1.373.1 Available under license:
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1.374 base-passwd 3.5.43

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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/CtField.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/reflect/Metaobject.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/.CtConstructor.java
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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/tools/rmi/AppletServer.java
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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/CtClassType.java
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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/expr/Cast.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/compiler/ast/Member.java
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1.385 pcre 8.39-3

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1.387 go-colorable 0.0.9

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

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

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1.392 python-setuptools 53.0.0

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1.395 cgi 0.1.0

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1.396 py3-certifi 2020.4.5.1-r0
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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
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@(#) SRC$Sfile: certdata.txt,v $SRevision: 1.80 $SDate: 2011/11/03 15:11:58 $

1.397 mime-support 3.60ubuntu1
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1.400 tk 8.6.9+1

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include/GL/gl.h :

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*****************************************************************************
---
include/GL/glext.h
include/GL/glxext.h
include/GL/wglxext.h :

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### xwd v1.0.7

#### xwd utility

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1.409 cloud-google-com-go 0.99.0
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// Code generated by protoc-gen-go-gapid. DO NOT EDIT.

package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.DeleteLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
    }
    resp, err := c.Delete(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
    }
func ExampleLicensesClient_GetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

def ExampleLicensesClient_Insert() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
func ExampleLicensesClient_List() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.ListLicensesRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
    }
    it := c.List(ctx, req)
    for {
        resp, err := it.Next()
        if err == iterator.Done {
            break
        }
        if err != nil {
            // TODO: Handle error.
        }
        // TODO: Use resp.
        _ = resp
    }
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_
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goimport (    "context"
    "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
ctx := context.Background()

_, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
    defer c.Close()

req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
}
    resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
ctx := context.Background()

_, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
    defer c.Close()

req := &computepb.TestIamPermissionsLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
}
    resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (  
    "bytes"  
    "context"
)
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete                  []gax.CallOption
    Get                     []gax.CallOption
    GetIamPolicy            []gax.CallOption
    Insert                  []gax.CallOption
    List                    []gax.CallOption
    SetIamPolicy            []gax.CallOption
    TestIamPermissions      []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}
// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.

// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}
// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
}
httpClient *http.Client

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD

// NewLicensesRESTClient creates a new licenses rest client.
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
}
return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    if err := nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values {}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }

    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }

    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header[\"Content-Type\"] = []string{\"application/json\"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)

    params := url.Values{
        "requestId": fmt.Sprintf("%v", req.GetRequestId())
    }
    baseUrl.RawQuery = params.Encode()

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        if err != nil {
            return nil, err
        }
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computeop.Operation{
}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *computeop.ListLicensesRequest, opts ...
gax.CallOption) *LicenseIterator {
    it := &LicenseIterator{
    req = proto.Clone(req).(*computeop.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([][]*computeop.License, string, error) {
        resp := &computeop.LicensesListResponse{
            if pageToken != "" {
                req.PageToken = proto.String(pageToken)
            }
            if pageSize > math.MaxInt32 {
                req.MaxResults = proto.Uint32(math.MaxInt32)
            } else if pageSize != 0 {
                req.MaxResults = proto.Uint32(uint32(pageSize))
            }
            baseUrl, _ := url.Parse(c.endpoint)
            params := url.Values{
                if req != nil && req.Filter != nil {
                }
                if req != nil && req.MaxResults != nil {
                    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
                }
                if req != nil && req.OrderBy != nil {
                    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
                }
            }
            httpRsp, err := http.RetryNoRestart(c.client, ctx, http.RetryNoOptions{}
            if err != nil {
                return nil, err
            }
            buf, err := ioutil.ReadAll(httpRsp.Body)
            if err != nil {
                return nil, err
            }
            unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
            rsp := &computeop.License{
                if err := unm.Unmarshal(buf, rsp); err != nil {
                    return nil, maybeUnknownEnum(err)
                }
            }
            op := &License{proto: rsp}
            return op, err
        }
    }
}
params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
}
if req != nil && req.ReturnPartialSuccess != nil {
}
baseUrl.RawQuery = params.Encode()

if err != nil {
return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
defert httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return "", nil
}
return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetGlobalSetPolicyRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}
baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {

return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
m := protojson.MarshalOptions{AllowPartial: true}
body := req.GetTestPermissionsRequestResource()
jsonReq, err := m.Marshal(body)
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
delay httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
    // InternalFetch returns results from a single call to the underlying RPC.
    // The number of results is no greater than pageSize.
    // If there are no more results, nextPageToken is empty and err is nil.
    InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

    // PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
    return it.pageInfo
}

    // Next returns the next result. Its second return value is iterator.Done if there are no more
    // results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
    var item *computepb.License
    if err := it.nextFunc(); err != nil {
        return item, err
    }
    item = it.items[0]
it.items = it.items[1:]
return item, nil
}

func (it *LicenseIterator) bufLen() int {
return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
b := it.items
it.items = nil
return b
}

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END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.
var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get           []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {

return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.TestPermissionsResponse, error) {
return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    
    c := &LicenseCodesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}, nil}
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append([]string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)

    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }

    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }

    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.LicenseCode{}

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }

    return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
        req.GetProject(), req.GetResource())

    if err != nil {
        return nil, err
    }

    httpReq = httpReq.WithContext(ctx)
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err == googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.TestPermissionsResponse{
        }

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}
1.410 libxdmcp 1.1.2-3
1.410.1 Available under license:

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1.411 wheel 0.30.0
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1.412 libpsl 0.17.0-3

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1.413 libcap 2.31

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* 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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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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
Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.415.1 Available under license:
Apache-2.0

1.416 python 3.9.6
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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<th>Year</th>
<th>Owner</th>
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1.420 tdb 1.45.5
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1.421 logstash-filter-throttle 4.0.4

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1.422 msv-core 2013.6.1

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-->

<?xml version="1.0" encoding="utf-8"?>
<module
moduleVersion="1.0"
relaxCoreVersion="1.0"
targetNamespace="http://www.xml.gr.jp/xmlns/relaxCore"
xmlns="http://www.xml.gr.jp/xmlns/relaxCore">

<inteface>

<export label="module"/>

</interface>

</div>
<annotation>
  <documentation>The overall structure of RELAX modules</documentation>
</annotation>

<elementRule role="module">
  <sequence>
    <ref label="annotation" occurs="?"/>
    <ref label="interface" occurs="?"/>
    <choice occurs="*">
      <hedgeRef label="clause"/> <!-- forward references are fine -->
      <hedgeRef label="rule"/> <!-- forward references are fine -->
      <ref label="divInModule"/>
      <ref label="include"/>
    </choice>
  </sequence>
</elementRule>

<tag name="module">
  <attribute name="moduleVersion" type="string"/>
  <attribute name="relaxCoreVersion" type="string" required="true">
    <enumeration value="1.0"/>
  </attribute>
  <attribute name="targetNamespace" type="uriReference"/>
</tag>

<elementRule role="interface">
  <sequence>
    <ref label="annotation" occurs="?"/>
    <choice occurs="*">
      <ref label="export"/>
      <ref label="divInInterface"/>
    </choice>
  </sequence>
</elementRule>

<tag name="interface"/>

<hedgeRule label="clause">
  <choice>
    <ref label="tag"/>
    <ref label="attPool"/>
  </choice>
</hedgeRule>

<hedgeRule label="rule">
  <choice>
<elementRule label="divInModule">
  <annotation>
    <documentation>div elements in modules</documentation>
  </annotation>
  <tag name="div"/>
  <sequence>
    <ref label="annotation" occurs="?"/>
    <choice occurs="*">
      <hedgeRef label="rule"/>
      <hedgeRef label="clause"/>
      <ref label="divInModule"/>
      <ref label="include"/>
    </choice>
  </sequence>
</elementRule>

<elementRule role="export">
  <tag name="export">
    <attribute name="label" required="true" type="NCName"/>
  </tag>
</elementRule>

<elementRule label="divInInterface">
  <annotation>
    <documentation>div elements in interfaces</documentation>
  </annotation>
  <tag name="div"/>
  <sequence>
    <ref label="annotation" occurs="?"/>
    <choice occurs="*">
      ...
    </choice>
  </sequence>
</elementRule>
<div>
  <annotation>
    <documentation>Include</documentation>
  </annotation>
</div>

<elementRule role="include">
  <ref label="annotation" occurs="?"/>
</elementRule>

<tag name="include">
  <attribute name="moduleLocation" type="uriReference" required="true"/>
</tag>
</div>

<hedgeRule label="particle">
  <annotation>
    <documentation>This is used to describe element hedge models. It is also used as subordinates of sequence, choice, and mixed.</documentation>
  </annotation>
  <choice>
    <ref label="refWithLabel"/>
    <ref label="hedgeRef"/>
    <ref label="choice"/>
    <ref label="sequence"/>
    <ref label="element"/>
    <ref label="none"/>
    <ref label="empty"/>
    <choice>
  </choice>
</hedgeRule>

<hedgeRule label="hedgeModel">
  <choice>
    <hedgeRef label="particle"/>
    <ref label="mixed"/>
  </choice>
</hedgeRule>
<attPool role="repeatable">
  <annotation>
    <documentation>This is used to specify the "occurs" attribute, which is shared by several elements.</documentation>
  </annotation>
  <attribute name="occurs" type="string">
    <enumeration value="?"/>
    <enumeration value="*"/>
    <enumeration value="+"/>
  </attribute>
</attPool>

<elementRule role="hedgeRef" type="emptyString"/>

<tag name="hedgeRef">
  <ref role="repeatable"/>
  <attribute name="label" required="true" type="NCName"/>
</tag>

<elementRule label="refWithLabel" type="emptyString">
  <annotation>
    <documentation>ref elements with the label attribute</documentation>
  </annotation>
  <tag name="ref">
    <ref role="repeatable"/>
    <attribute name="label" required="true" type="NCName"/>
    <attribute name="role" type="none"/>
  </tag>
</elementRule>

<elementRule role="empty" type="emptyString"/>

<tag name="empty"/>

<elementRule role="choice">
  <hedgeRef label="particle" occurs="*"/>
</elementRule>

<tag name="choice">
  <ref role="repeatable"/>
</tag>

<elementRule role="sequence">
  <hedgeRef label="particle" occurs="*"/>
</elementRule>
<tag name="sequence">
  <ref role="repeatable"/>
</tag>

<elementRule role="none" type="emptyString"/>

<tag name="none"/>

<elementRule role="mixed">
  <hedgeRef label="particle"/>
</elementRule>

<tag name="mixed"/>

<elementRule label="element">
  <annotation>
    <documentation>with the type attribute</documentation>
  </annotation>
  <tag name="element">
    <ref role="repeatable"/>
    <attribute name="name" required="true" type="NCName"/>
    <attribute name="type" required="true" type="NCName"/>
  </tag>
  <sequence>
    <ref label="annotation" occurs="?"/>
    <hedgeRef label="facet" occurs="*"/>
  </sequence>
</elementRule>
</div>

<div>
  <annotation>
    <documentation>Rules</documentation>
  </annotation>

  <elementRule label="elementRule">
    <annotation>
      <documentation>without an embedded tag element</documentation>
      <documentation>with the type attribute</documentation>
    </annotation>
    <tag name="elementRule">
      <attribute name="role" required="true" type="NCName"/>
      <attribute name="label" type="NCName"/>
      <attribute name="type" type="NCName" required="true"/>
    </tag>
    <sequence>
    </sequence>
  </elementRule>
</div>
<elementRule label="elementRule">
  <annotation>
    <documentation>with an embedded tag element</documentation>
    <documentation>with the type attribute</documentation>
  </annotation>
  <tag name="elementRule">
    <attribute name="role" type="none"/>
    <attribute name="label" required="true" type="NCName"/>
    <attribute name="type" type="NCName" required="true"/>
  </tag>
  <sequence>
    <ref label="annotation" occurs=""/>
    <ref label="tagInRule"/>
    <hedgeRef label="facet" occurs=""/>
  </sequence>
</elementRule>

<elementRule label="elementRule">
  <annotation>
    <documentation>without an embedded tag element</documentation>
    <documentation>with a hedge model</documentation>
  </annotation>
  <tag name="elementRule">
    <attribute name="role" required="true" type="NCName"/>
    <attribute name="label" type="NCName"/>
    <attribute name="type" type="none"/>
  </tag>
  <sequence>
    <ref label="annotation" occurs=""/>
    <hedgeRef label="hedgeModel"/>
  </sequence>
</elementRule>

<elementRule label="elementRule">
  <annotation>
    <documentation>with an embedded tag element</documentation>
    <documentation>with a hedge model</documentation>
  </annotation>
  <tag name="elementRule">
    <attribute name="role" type="none"/>
    <attribute name="label" required="true" type="NCName"/>
    <attribute name="type" type="none"/>
  </tag>
</elementRule>
<sequence>
  <ref label="annotation" occurs=""/>
  <ref label="tagInRule"/>
  <hedgeRef label="hedgeModel"/>
  </sequence>
</elementRule>

<elementRule role="hedgeRule">
  <sequence>
    <ref label="annotation" occurs=""/>
    <hedgeRef label="hedgeModel"/>
    </sequence>
  </elementRule>

<tag name="hedgeRule">
  <attribute name="label" required="true" type="NCName"/>
  </tag>
</div>

<annotation>
  <documentation>Clauses</documentation>
</annotation>

<hedgeRule label="clauseBody">
  <sequence>
    <ref label="annotation" occurs=""/>
    <ref label="refWithRole" occurs="*">
      <ref label="attribute" occurs="*">
        </sequence>
    </ref>
  </hedgeRule>

<elementRule role="tag">
  <hedgeRef label="clauseBody"/>
</elementRule>

<tag name="tag">
  <attribute name="role" type="NCName"/>
  <attribute name="name" required="true" type="NCName"/>
  </tag>
<elementRule label="tagInRule">
  <annotation>
    <documentation>tag elements embedded inelementRules</documentation>
  </annotation>
  <tag name="tag"/>
<attribute name="role" type="none"/>
<attribute name="name" type="NCName"/>
</tag>
<hedgeRef label="clauseBody"/>
</elementRule>

<elementRule role="attPool">
<hedgeRef label="clauseBody"/>
</elementRule>

<tag name="attPool">
<attribute name="role" required="true" type="NCName"/>
</tag>

<elementRule label="refWithRole" type="emptyString">
<annotation>
<documentation>ref elements with the role attribute</documentation>
</annotation>
<tag name="ref">
<attribute name="role" required="true" type="NCName"/>
<attribute name="label" type="none"/>
</tag>
</elementRule>

<elementRule role="attribute">
<sequence>
<ref label="annotation" occurs="?"/>
<hedgeRef label="facet" occurs="*"/>
</sequence>
</elementRule>
</tag>
</tag>
<annotation>
<documentation>Since RELAX Core is concerned with a single namespace, NCName might be more appropriate. However, xml:space and xml:lang are so common that RELAX Core should allow them.
</documentation>
</annotation>
</attribute>
</tag>
<attribute name="type" type="NCName"/>
<attribute name="required" type="NM_TOKEN">
<enumeration value="true"/>
</attribute>
</tag>
</div>
<!-- datatypes -->
<hedgeRule label="minBound">
  <choice>
    <ref label="minInclusive"/>
    <ref label="minExclusive"/>
  </choice>
</hedgeRule>

<hedgeRule label="maxBound">
  <choice>
    <ref label="maxInclusive"/>
    <ref label="maxExclusive"/>
  </choice>
</hedgeRule>

<hedgeRule label="bounds">
  <choice>
    <hedgeRef label="minBound"/>
    <hedgeRef label="maxBound"/>
  </choice>
</hedgeRule>

<hedgeRule label="numeric">
  <choice>
    <ref label="precision"/>
    <ref label="scale"/>
  </choice>
</hedgeRule>

<hedgeRule label="ordered">
  <choice>
    <hedgeRef label="bounds"/>
    <hedgeRef label="numeric"/>
  </choice>
</hedgeRule>

<hedgeRule label="unordered">
  <choice>
    <ref label="pattern"/>
    <ref label="enumeration"/>
    <ref label="length"/>
    <ref label="maxLength"/>
    <ref label="minLength"/>
    <ref label="encoding"/>
    <ref label="period"/>
  </choice>
</hedgeRule>
RELAX Core published as JIS TR in 2000/5 does not have user-defined types. But this may change in the future. Comments?

<elementRule role="simpleType">
    <sequence>
        <ref label="annotation" occurs="?"/>
        <hedgeRef label="facet" occurs="*"/>
    </sequence>
</elementRule>

<tag name="simpleType">
    <attribute name="name" type="NMTOKEN"/>
    <attribute name="base" required="true" type="string"/>
</tag>

<elementRule role="maxExclusive">
    <hedgeRef label="facetModel"/>
</elementRule>

<tag name="maxExclusive">
    <ref role="facetAttrs"/>
</tag>

<elementRule role="minExclusive">
    <hedgeRef label="facetModel"/>
</elementRule>
<tag name="minExclusive">
  <ref role="facetAttrs"/>
</tag>

<elementRule role="maxInclusive">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="maxInclusive">
  <ref role="facetAttrs"/>
</tag>

<elementRule role="minInclusive">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="minInclusive">
  <ref role="facetAttrs"/>
</tag>

<elementRule role="precision">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="precision">
  <attribute name="value" required="true" type="positiveInteger"/>
</tag>

<elementRule role="scale">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="scale">
  <attribute name="value" required="true" type="nonNegativeInteger"/>
</tag>

<elementRule role="length">
  <hedgeRef label="facetModel"/>
</elementRule>

<tag name="length">
  <attribute name="value" required="true" type="nonNegativeInteger"/>
</tag>

<elementRule role="minLength">
  <hedgeRef label="facetModel"/>
</elementRule>
Found in path(s):
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/relax/core/relaxCore.rlx
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/MessageCatalog.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/DTDEventListener.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/XmlChars.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/XmlReader.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/InputEntity.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/ExternalEntity.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/InternalEntity.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/XmlNames.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/EntityDecl.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/EndOfInputException.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/SimpleHashtable.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/DTDParser.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/scanner/dtd/Resolver.java

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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/regexp/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/relaxng/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/relaxns/verifier/Messages_ja.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/relaxns/verifier/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/regexp/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/trex/ng/comp/Messages.properties
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/driver/textui/Messages.properties
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/ExpressionVisitorExpression.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/util/ErrorHandlerImpl.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/WSDLSchemaReader.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/relax/HedgeRules.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/RootIncludedSchemaState.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/util/GrammarLoader.java
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/ExpressionVisitorExpression.java
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/writer/relaxng/Context.java
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/relax/core/MixedState.java
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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/ValueExp.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/relax/NoneType.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/XMLSchemaReader.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/ExpressionOwner.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/dtd/DTDReader.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/jarv/VerifierImpl.java
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/xmlschema/AttWildcardExp.java
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*/
/**
 * Adapt a SAX1 AttributeList as a SAX2 Attributes object.
 *
 * <p>This class is in the Public Domain, and comes with NO
 * WARRANTY of any kind.</p>
 *
 * <p>This wrapper class is used only when Namespace support
 * is disabled -- it provides pretty much a direct mapping
 * from SAX1 to SAX2, except that names and types are
 * interned whenever requested.</p>
 */

Found in path(s):
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-
jar/com/sun/msv/writer/ContentHandlerAdaptor.java
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*/
/**
* exposes the low-level validation engine interface.
* 
* <p>
* represents a pseudo-automaton acceptor.
* this interface is used to validate content models.
* 
* *
* <h2>Perform Validation</h2>
* <p>
* To perform validation, call the createAcceptor method of the DocumentDeclaration
* interface to obtain an Acceptor for validating the document element.
* 
* <pre>
* Acceptor a = vgm.createAcceptor();
* </pre>
* 
* <p>
* One acceptor is responsible for validating one element. So you also need
* some form of stack. If you are using a "push" interface like SAX, you need
* an explicit stack. If you are validating in "pull" fashion (like DOM), then
* you can use a recursion instead of an explicit stack.
* The following explanation assumes SAX-like interface.
* 
* <p>
* Now, get back to the story. Whenever you encounter a start tag, create a new
* acceptor, which validates the children of newly encountered element.
* 
* <pre>
* stack.push(a);
* a = a.createChildAcceptor( sti, null );
* </pre>
*
* <p>
* If this tag name was unexpected, then this method returns null. See javadoc
* for more details.
*
* <p>
* Then, for every attributes, call the {@link #onAttribute} method.
* After that you call the {@link onEndAttributes} method.
*
* <pre><xmp>
* for( int i=0; i<atts.getLength(); i++ )
*   a.onAttribute( atts.getURI(i), .... );
* a.onEndAttributes();
* </xmp></pre>
*
* <p>
* An error can occur at any method. See the method documentations for details.
*
* <p>
* If you find an end tag, make sure that the acceptor is satisfied. An acceptor
* is said to be unsatisfied when it needs more elements/text to complete the content
* model. For example, if the content model is (A,B,C) and it only sees (A,B), then
* the acceptor is not satisfied because it needs to see C.
*
* <pre>
* if(!a.isAcceptState(null))
*   ; // error because the acceptor is unsatisfied.
* Acceptor child = a;
* a = stack.pop();
* a.stepForward(child,null);
* </pre>
*
* <p>
* Then, call the stepForward method of the parent acceptor and pass
* the child acceptor to it.
*
* <p>
* Finally, whenever you see a text, call the onText method.
* If the text was unexpected or not allowed, then this method returns null.
* See the documentation for details.
*
* <pre>
* a.onText("text",context,null,null);
* </pre>
*
In this way, you can better control the validation process.

If you need even finer control of the validation process (e.g., you need to know the list of allowed elements/attributes), you may want to rely on the <code>regexp</code> implementation of VGM. See [@link com.sun.msv.verifier.regexp.REDocumentDeclaration] for detail.

<h2>Downcasting</h2>

It is often useful to downcast the Acceptor interface to appropriate derived class. For example, if you are using [@link com.sun.msv.verifier.regexp.REDocumentDeclaration], then you can always downcast an Acceptor to [@link com.sun.msv.verifier.regexp.ExpressionAcceptor], which provides more predictable behaviors and some useful methods.

@see DocumentDeclaration
@see DocumentDeclaration
@see DocumentDeclaration

Kohsuke KAWAGUCHI

Found in path(s):
/opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/verifier/Acceptor.java

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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/reader/xmlschema/xmlschema.xsd
* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/overview.html
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*/
/**
* ElementPattern with type.
*
* Proprietary extension by MSV to support type-assignment in TREX.
*
* @author <a href="mailto:kohsuke.kawaguchi@eng.sun.com">Kohsuke KAWAGUCHI</a>
*/

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* /opt/cola/permits/1260753952_1643213076.85/0/msv-core-2013-6-1-sources-jar/com/sun/msv/grammar/trex/typed/TypedElementPattern.java

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 * Rob Earhart
 * Rob Siemborski
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/zip/PostMortem.java
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Found in path(s):
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONArray.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONObject.java
No license file was found, but licenses were detected in source scan.

*/
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* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Cookie.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/HTTP.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/Property.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CookieList.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/JSONTokener.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XML.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/CDL.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/XMLTokener.java
* /opt/cola/permits/1126439541_1611634442.47/0/json-20131018-sources-jar/org/json/HTTPTokener.java

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1.430.1 Available under license:
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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/database.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/misc.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/job.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/compat.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/do_command.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/user.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/config.h
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/entry.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/crontab.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/env.c
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p1l-orig-tar-gz/cron-3.0p1l.orig/cron.c

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$Id: INSTALL,v 2.5 1994/01/15 20:43:43 vixie Exp $

Read the comments at the top of the Makefile, then edit the area marked
'configurable stuff'.

Open Source Used In cnBR Operations Hub 22.2 4145
Edit config.h. The stuff I expect you to change is down a bit from the top of the file, but it's clearly marked. Also look at pathnames.h.

You don't have to create the /var/cron or /var/cron/tabs directories, since both the daemon and the `crontab' program will do this the first time they run if they don't exist. You do need to have a /var, though -- just "mkdir /var" if you don't have one, or you can "mkdir /usr/var; ln -s /usr/var /var" if you expect your /var to have a lot of stuff in it.

You will also need /usr/local/etc and /usr/local/bin directories unless you change the Makefile. These will have to be created by hand, but if you are a long-time Usenet user you probably have them already. /usr/local/man is where I keep my man pages, but I have the source for `man' and you probably do not. Therefore you may have to put the man pages into /usr/man/manl, which will be hard since there will be name collisions. (Note that the man command was originally written by Bill Joy before he left Berkeley, and it contains no AT&T code, so it is in UUNET's archive of freely-distributable BSD code.)

LINUX note: /usr/include/paths.h on some linux systems shows _PATH_SENDMAIL to be /usr/bin/sendmail even though sendmail is installed in /usr/lib. you should check this out.

say:
make all

su and say:
make install

Note that if I can get you to "su and say" something just by asking, you have a very serious security problem on your system and you should look into it.

Edit your /usr/lib/crontab file into little pieces -- see the CONVERSION file for help on this.

Use the `crontab' command to install all the little pieces you just created. Some examples (see below before trying any of these!)

crontab -u uucp -r /usr/lib/uucp/crontab.src
crontab -u news -r /usr/lib/news/crontab.src
crontab -u root -r /usr/adm/crontab.src

Notes on above examples: (1) the .src files are copied at the time the command is issued; changing the source files later will have no effect until they are reinstalled with another `crontab -r' command. (2) The crontab command will affect the crontab of the person using the command unless `-u USER' is given; `-u' only works for root. When using most `su' commands
under most BSD's, 'crontab' will still think of you as yourself even though you may think of yourself as root -- so use `-u' liberally. (3) the `'-r'
option stands for 'replace'; check the man page for crontab(1) for other possibilities.

Kill your existing cron daemon -- do `ps aux' and look for /etc/cron.

Edit your /etc/rc or /etc/rc.local, looking for the line that starts up
/etc/cron. Comment it out and add a line to start the new cron daemon
-- usually /usr/local/etc/cron, unless you changed it in the Makefile.

Start up this cron daemon yourself as root. Just type /usr/local/etc/cron
(or whatever); no `&' is needed since the daemon forks itself and the
process you executed returns immediately.

ATT notes: for those people unfortunate enough to be stuck on a AT&T UNIX,
you will need the public-domain "libndir", found in the B News source and in
any comp.sources.unix archive. You will also need to hack the code some.

Found in path(s):
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0p11-orig-tar-gz/cron-3.0p11.orig/INSTALL

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SId: crontab.1,v 2.4 1993/12/31 10:47:33 vixie Exp $
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* 
* @(#)bitstring.h 5.2 (Berkeley) 4/4/90
*/

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* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/bitstring.h
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/* */
/* Std: crontab.5,v 2.4 1994/01/15 20:43:43 vixie Exp $ */
/* */

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Vixie Cron V3.0
December 27, 1993
[V2.2 was some time in 1992]
[V2.1 was May 29, 1991]
[V2.0 was July 5, 1990]
[V2.0-beta was December 9, 1988]
[V1.0 was May 6, 1987]
Pau,

This is a version of 'cron' that is known to run on BSD 4.23 systems. It
is functionally based on the SysV cron, which means that each user can have
their own crontab file (all crontab files are stored in a read-protected
directory, usually /var/cron/tabs). No direct support is provided for
'at'; you can continue to run 'atrun' from the crontab as you have been
doing. If you don't have atrun (i.e., System V) you are in trouble.

A messages is logged each time a command is executed; also, the files
"allow" and "deny" in /var/cron/tabs can be used to control access to the
"crontab" command (which installs crontabs). It hasn't been tested on
SysV, although some effort has gone into making the port an easy one.

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low license fee just to have them take it. In the unlikely event that they
do this, I will continue to support and distribute the pseudo-PD version, so
please, don't flame me for wanting my work to see a wider distribution.

To use this: Sorry, folks, there is no cutesy 'Configure' script. You'll
have to go edit a couple of files... So, here's the checklist:
Read all the FEATURES, INSTALL, and CONVERSION files
Edit config.h
Edit Makefile
(both of these files have instructions inside; note that
some things in config.h are definable in Makefile and are
therefore surrounded by #ifndef...#endif)
'make'
'su' and 'make install'
(you may have to install the man pages by hand)
kill your existing cron process
(actually you can run your existing cron if you want, but why?)
built new crontabs using /usr/lib/[crontab,crontab.local]
(either put them all in "root"'s crontab, or divide it up
and rip out all the 'su' commands, collapse the lengthy
lists into ranges with steps -- basically, this step is
as much work as you want to make it)
start up the new cron
(must be done as root)
watch it. test it with 'crontab -r' and watch the daemon track your
changes.
if you like it, change your /etc/[rc,rc.local] to use it instead of
the old one.

$Id: README,v 2.3 1993/12/28 08:34:43 vixie Exp $

Found in path(s):
* /opt/cola/permits/1029757352_1619638247.49/0/cron-3-0pl1-orig-tar-gz/cron-3.0pl1.orig/README

1.433 python-setuptools 59.2.0
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1.434 nimbus-jose-jwt 9.8.1

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* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/JWSAlgorithmFamilyJWSKeySelector.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/crypto/ECDHEncrypter.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/JOSEProcessorConfiguration.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/JWSVerificationKeySelector.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jwt/proc/DefaultJWTProcessor.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/DefaultJOSEProcessor.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/jwk/JWKMatcher.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/JWEDecryptionKeySelector.java

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jar/com/nimbusds/jose/jwk/source/JWKSecurityContextJWKSet.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/proc/JOSEObjectTypeVerifier.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
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* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/DateUtils.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/proc/BadJWEException.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/util/JSONObjectUtils.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-jar/com/nimbusds/jose/KeyLengthException.java
jar/com/nimbusds/jose/crypto/ECDHDecrypter.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/util/StandardCharset.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/crypto/RSAEncrypter.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/JOSEException.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/crypto/DirectEncrypter.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jwt/JWEObject.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jwt/JWTParser.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/util/IntegerUtils.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jwt/proc/ClockSkewAware.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/proc/JOSEProcessor.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/jwk/JWEDecrypterFactory.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/jwk/JWKMetadata.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/jwk/KeyConverter.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/jwk/KeyUse.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/jwk/Base64URL.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/jwk/AbstractJWKSelectorWithSource.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/JOSEObject.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/util/package-info.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources.jar/com/nimbusds/jose/util/package-info.java
jar/com/nimbusds/jose/jwk/JWK.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/JWSObject.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/JWECryptoParts.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/util/ArrayUtils.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/util/X509CertUtils.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/JOSEProvider.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/Header.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/crypto/RSASSAVerifier.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jose/proc/SecurityContext.java
* /opt/cola/permits/1151440908_1617901124.39/0/nimbus-jose-jwt-9-8-1-sources-
jar/com/nimbusds/jwt/proc/JWTProcessorConfiguration.java
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1.435 jwt-go 3.2.0+incompatible

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1.436 re2 7.17.0

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1.437 simplejson 3.17.2

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</properties>
</project>
1.441 netty 4.0.56

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1.442 kubernetes-kubectl 0.22.4

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- Copy files to and from Containers in a cluster

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

Copy a local file to a remote Pod in a cluster.

- Local file format is `\<path>``
- Remote file format is `\<pod-name>:\<path>``

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `\<path>`
- Remote file format is `\<pod-name>:\<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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# Don't put empty lines into this file!
#
.gitignore
#
builds/unix/pkg.m4
#
docs/FTL.TXT
docs/GPLv2.TXT
#
include/freetype/internal/fhash.h
src/base/fthash.c
src/base/md5.c
src/base/md5.h

src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk

src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdriPr.c
src/pcf/pcfdriPr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
src/pcf/README
src/pcf/rules.mk

src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h

src/tools/apinames.c
src/tools/ftrandom/ftrandom.c

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1.444 click 7.1.2
1.444.1 Available under license:

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# binary only, patch it back to the system, and then use a wrapper

Found in path(s):
* /opt/cola/permits/1160566381_1620335255.38/0/pallets-click-7-1-2-0-g1784558-1-tar-gz/pallets-click-1784558/src/click/_compat.py

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import io
import re

from setuptools import find_packages
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
    readme = f.read()

with io.open("src/click/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read()).group(1)

setup(
    name="click",
    version=version,
    url="https://palletsprojects.com/p/click/",
    project_urls={
        "Documentation": "https://click.palletsprojects.com/",
        "Code": "https://github.com/pallets/click",
        "Issue tracker": "https://github.com/pallets/click/issues",
    },
    license="BSD-3-Clause",
    maintainer="Pallets",
    maintainer_email="contact@palletsprojects.com",
    description="Composable command line interface toolkit",
    long_description=readme,
    packages=find_packages("src"),
    package_dir={"": "src"},
    include_package_data=True,
    python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
    classifiers=[
        "Development Status :: 5 - Production/Stable",
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        "License :: OSI Approved :: BSD License",
        "Operating System :: OS Independent",
        "Programming Language :: Python",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
    ],
)
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This is why click-contrib exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

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.. _click-contrib: https://github.com/click-contrib/
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1.445 markupsafe 1.0 1build1

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1.446 jackson-dataformat-smile 2.13.2
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com.fasterxml.jackson.dataformat.smile.SmileFactory
```

Found in path(s):
1.447 x-net 0.0.0-20220615171555-694bf12d69de

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1.448 google-api-client 1.32.1

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* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1.jar/com/google/api/client/googleapis/auth/oauth2/GoogleRefreshTokenRequest.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1.jar/com/google/api/client/googleapis/media/MediaHttpUploader.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1.jar/com/google/api/client/googleapis/auth/oauth2/GoogleOAuthConstants.java
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* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1.jar/com/google/api/client/googleapis/json/GoogleResponseException.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1.jar/com/google/api/client/googleapis/json/GoogleJsonResponseException.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1.jar/com/google/api/client/googleapis/json/GoogleJsonError.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1.jar/com/google/api/client/googleapis/media/MediaHttpUploaderProgressListener.java

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* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-
  jar/com/google/api/client/googleapis/MethodOverride.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-
  jar/com/google/api/client/googleapis/json/package-info.java
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  jar/com/google/api/client/googleapis/media/package-info.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-
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jar/com/google/api/client/googleapis/media/MediaHttpDownloaderProgressListener.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-
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* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-
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* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-
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* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-
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jar/com/google/api/client/googleapis/media/MediaHttpDownloader.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-
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* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-
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* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-jar/com/google/api/client/googleapis/notifications/NotificationUtils.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-jar/com/google/api/client/googleapis/notifications/ResourceStates.java
* /opt/cola/permits/1339752376_1654599354.6449122/0/google-api-client-1-32-1-sources-1-jar/com/google/api/client/googleapis/testing/json/GoogleJsonResponseExceptionFactoryTesting.java

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auto_right_margin, am, am
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can_change, ccc, cc
cceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
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eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
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lpi_changes_res, lpix, YG
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memory_below, db, db
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move_standout_mode, msgr, ms
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no_esc_ctlc, xsb, xb
no_pad_char, npc, NP
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non_rev_rmcup, nrrmc, NR
over_strike, os, os
prtr_silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
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change_scroll_region, csr, cs
char_padding, rmp, rP
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key_sredo, kRDO, %g
key_sreplace, kRPL, %h
key_sright, kRIT, %i
key_srsmsme, kRES, %j
key_sssave, kSAV, !1
key_sssuspend, kSPD, !2
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micro_down, mcud1, ZZ
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micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
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order_of_pins, porder, Ze
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pad_char, pad, pc
parm_dch, dch, DC
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to_status_line, tsl, ts
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underline_char, uc, uc
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user1, u1, u1
user2, u2, u2
user3, u3, u3
user4, u4, u4
user5, u5, u5
user6, u6, u6
user7, u7, u7
user8, u8, u8
user9, u9, u9
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set_a_foreground, setaf, AF
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set_lr_margin, smglr, ML
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set_tb_margin, smgtb, MT
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enter_low_hl_mode, eloohl, XO
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/Colors.java
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* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/AbstractTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/package-info.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/WCWidth.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-jar/org/jline/utils/DiffHelper.java
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  jar/org/jline/utils/PumpReader.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-
  jar/org/jline/utils/NonBlockingPumpReader.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-
  jar/org/jline/utils/NonBlockingPumpInputStream.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-
  jar/org/jline/terminal/impl/AbstractWindowsConsoleWriter.java
* /opt/cola/permits/1260641921_1643189388.73/0/jline-terminal-3-12-1-sources-
  jar/org/jline/utils/WriterOutputStream.java

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green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
aqua
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grey0
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cyano1
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1.452 asm-commons 7.2

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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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/opt/cola/permits/1135935692_1613638422.89/0/asm-commons-7-2-sources-4-
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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.
 */

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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.
 */

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1.453 google-auth-library-credentials 0.26.0

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1.454 keyutils 1.6.1-r1
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1.455 certifi 2018.1.18
1.455.1 Available under license:
This package contains a modified version of ca-bundle.crt:

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Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.456 jersey-metainf-services 2.25.1
1.457 reporter-config-base 3.0.3

1.458 libice 1.0.10-0ubuntu1
1.458.1 Available under license :

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1.459 jopt-simple 5.0.4
1.459.1 Available under license :

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*/

Found in path(s):
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AlternativeLongOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParserState.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/UnconfiguredOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/AbstractOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/MethodInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionalArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/DateConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/RegexMatcher.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/ConstructorInvokingValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionArgumentConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Classes.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/UnavailableOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionDescriptor.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConversionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionParser.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Reflection.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-
jar/joptsimple/UnrecognizedOptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/Messages.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NoArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentList.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ValueConverter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/RequiredArgumentOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/SimpleOptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/ArgumentAcceptingOptionSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/NonOptionArgumentSpec.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecBuilder.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/MissingRequiredOptionsException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/KeyValuePair.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/BuiltinHelpFormatter.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/OptionSpecTokenizer.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/ReflectionException.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/internal/OptionNameMap.java
* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/HelpFormatter.java
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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/EnumConverter.java

1.460 builder 0.0.0-20180802200727-47ae307949d0

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The End

1.466 rufus-scheduler 3.0.9

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Julian Seward, Cambridge, UK.
jseward@bzip.org
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1.470 skia 93

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DRuntime: Runtime Library for the D Programming Language

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========

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Ty Coon, President of Vice

That’s all there is to it!
This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
</tbody>
</table>
For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
<tbody>
<tr>
<td>C++</td>
<td></td>
<td>libstdc++6-9-dbgs  libstdc++6-9-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
- libgcc1, libgcc2, libgcc4: GCC intrinsics (platform-dependent)
- gcc-9-base: Base files common to all compilers
- gcc-9-soft-float: Software floating point (ARM only)
- gcc-9-source: The sources with patches

Ada:
- libgnatvsn-dev, libgnatvsn9: GNAT version library

C:
- cpp-9, cpp-9-doc: GNU C Preprocessor
- libssp0-dev, libssp0: GCC stack smashing protection library
- libquadmath0: Math routines for the __float128 type
- fixincludes: Fix non-ANSI header files

C, C++ and Fortran 95:
- libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
- libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32’ instead of 'lib’, for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64’ instead of 'lib’. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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- libatomic
- libdeci
- libatomic
- libdecnumber
- libobjc
- libobjc
- libobjc
- libgomp
- libgomp
- libgfortran
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- libvtv
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Developed by:

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University of Illinois at Urbana-Champaign

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- d/dmd/*

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Developed by:

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Found in path(s):
* /opt/cola/permits/1155785544_1619045316.26/0/minitest-5-14-2-gem/data-tar-gz/lib/minitest/benchmark.rb
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= minitest/[test,spec,mock,benchmark]

home :: https://github.com/seattlerb/minitest
bugs :: https://github.com/seattlerb/minitest/issues
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vim  :: https://github.com/sunaku/vim-ruby-minitest
emacs:: https://github.com/arthurnn/minitest-emacs

== DESCRIPTION:

minitest provides a complete suite of testing facilities supporting
TDD, BDD, mocking, and benchmarking.

"I had a class with Jim Weirich on testing last week and we were
allowed to choose our testing frameworks. Kirk Haines and I were
paired up and we cracked open the code for a few test
frameworks...

    I MUST say that minitest is *very* readable / understandable
    compared to the 'other two' options we looked at. Nicely done and
    thank you for helping us keep our mental sanity."

    -- Wayne E. Seguin

minitest/test is a small and incredibly fast unit testing framework.
It provides a rich set of assertions to make your tests clean and
readable.

minitest/spec is a functionally complete spec engine. It hooks onto
minitest/test and seamlessly bridges test assertions over to spec
expectations.
minitest/benchmark is an awesome way to assert the performance of your algorithms in a repeatable manner. Now you can assert that your newb co-worker doesn't replace your linear algorithm with an exponential one!

minitest/mock by Steven Baker, is a beautifully tiny mock (and stub) object framework.

minitest/pride shows pride in testing and adds coloring to your test output. I guess it is an example of how to write IO pipes too. :P

minitest/test is meant to have a clean implementation for language implementors that need a minimal set of methods to bootstrap a working test suite. For example, there is no magic involved for test-case discovery.

"Again, I can't praise enough the idea of a testing/specing framework that I can actually read in full in one sitting!"

-- Piotr Szotkowski

Comparing to rspec:

rspec is a testing DSL. minitest is ruby.

-- Adam Hawkins, "Bow Before MiniTest"

minitest doesn't reinvent anything that ruby already provides, like: classes, modules, inheritance, methods. This means you only have to learn ruby to use minitest and all of your regular OO practices like extract-method refactorings still apply.

== FEATURES/PROBLEMS:

* minitest/autorun - the easy and explicit way to run all your tests.
* minitest/test - a very fast, simple, and clean test system.
* minitest/spec - a very fast, simple, and clean spec system.
* minitest/mock - a simple and clean mock/stub system.
* minitest/benchmark - an awesome way to assert your algorithm's performance.
* minitest/pride - show your pride in testing!
* Incredibly small and fast runner, but no bells and whistles.
* Written by squishy human beings. Software can never be perfect. We will all eventually die.

== RATIONALE:

See design_rationale.rb to see how specs and tests work in minitest.
== SYNOPSIS:

Given that you'd like to test the following class:

```ruby
class Meme
  def i_can_has_cheezburger?
    "OHAI!"
  end

  def will_it_blend?
    "YES!"
  end
end
```

=== Unit tests

Define your tests as methods beginning with `test_`.

```ruby
require "minitest/autorun"

class TestMeme < Minitest::Test
  def setup
    @meme = Meme.new
  end

  def test_that_kitty_can_eat
    assert_equal "OHAI!", @meme.i_can_has_cheezburger?
  end

  def test_that_it_will_not_blend
    refute_match /^no/i, @meme.will_it_blend?
  end

  def test_that_will_be_skipped
    skip "test this later"
  end
end
```

=== Specs

```ruby
require "minitest/autorun"

describe Meme do
  before do
    @meme = Meme.new
  end

  describe "when asked about cheeseburgers" do
```
it "must respond positively" do
  _(@meme.i_can_has_cheezburger?).must_equal "OHAI!"
end

describe "when asked about blending possibilities" do
  it "won't say no" do
    _(@meme.will_it_blend?).wont_match /^no/i
  end
end

For matchers support check out:

* https://github.com/wojtekmach/minitest-matchers
* https://github.com/rmm5t/minitest-matchers_vaccine

=== Benchmarks

Add benchmarks to your tests.

# optionally run benchmarks, good for CI-only work!
require "minitest/benchmark" if ENV["BENCH"]

class TestMeme < Minitest::Benchmark
  # Override self.bench_range or default range is [1, 10, 100, 1,000, 10,000]
  def bench_my_algorithm
    assert_performance_linear 0.9999 do |n| # n is a range value
      @obj.my_algorithm(n)
    end
  end
end

Or add them to your specs. If you make benchmarks optional, you'll need to wrap your benchmarks in a conditional since the methods won't be defined. In minitest 5, the describe name needs to match <tt>/Bench(mark)?$/</tt>.

describe "Meme Benchmark" do
  if ENV["BENCH"] then
    bench_performance_linear "my_algorithm", 0.9999 do [n]
      100.times do
        @obj.my_algorithm(n)
      end
    end
  end
end

# Running benchmarks:

TestBlah100100010000  
bench_my_algorithm 0.006167 0.079279 0.786993  
bench_other_algorithm 0.061679 0.792797 7.869932  

Output is tab-delimited to make it easy to paste into a spreadsheet.

== Mocks

Mocks and stubs defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Mocks are pre-programmed with expectations which form a specification of the calls they are expected to receive. They can throw an exception if they receive a call they don't expect and are checked during verification to ensure they got all the calls they were expecting."

class MemeAsker  
def initialize(meme)  
  @meme = meme  
end  

def ask(question)  
  method = question.tr(" ", ".") + "?"  
  @meme.__send__(method)  
end  
end

require "minitest/autorun"

describe MemeAsker, :ask do  
describe "when passed an unpunctuated question" do  
it "should invoke the appropriate predicate method on the meme" do  
  @meme = Minitest::Mock.new  
  @meme_asker = MemeAsker.new @meme  
  @meme.expect :will_it_blend?, :return_value  

  @meme_asker.ask "will it blend"  

  @meme.verify  
end  
end

eend

==== Multi-threading and Mocks
Minitest mocks do not support multi-threading. If it works, fine, if it doesn't you can use regular ruby patterns and facilities like local variables. Here's an example of asserting that code inside a thread is run:

```ruby
def test_called_inside_thread
  called = false
  pr = Proc.new { called = true }
  thread = Thread.new(&pr)
  thread.join
  assert called, "proc not called"
end
```

### Stubs

Mocks and stubs are defined using terminology by Fowler & Meszaros at http://www.martinfowler.com/bliki/TestDouble.html:

"Stubs provide canned answers to calls made during the test".

Minitest's stub method overrides a single method for the duration of the block.

```ruby
def test_stale_eh
  obj_under_test = Something.new
  refute obj_under_test.stale?
  Time.stub :now, Time.at(0) do # stub goes away once the block is done
    assert obj_under_test.stale?
  end
end
```

A note on stubbing: In order to stub a method, the method must actually exist prior to stubbing. Use a singleton method to create a new non-existing method:

```ruby
def obj_under_test.fake_method
  ...
end
```

### Running Your Tests

Ideally, you'll use a rake task to run your tests, either piecemeal or all at once. Both rake and rails ship with rake tasks for running your tests. BUT! You don't have to:

```
% ruby -Ilib:test test/minitest/test_minitest_test.rb
```
Run options: --seed 37685

# Running:

................................................................. (etc)

Finished in 0.107130s, 1446.8403 runs/s, 2959.0217 assertions/s.

155 runs, 317 assertions, 0 failures, 0 errors, 0 skips

There are runtime options available, both from minitest itself, and also provided via plugins. To see them, simply run with --help:

% ruby -Ilib:test test/minitest/test_minitest_test.rb --help
minitest options:
- h, --help Display this help.
- s, --seed SEED Sets random seed. Also via env. Eg: SEED=n rake
- v, --verbose Verbose. Show progress processing files.
- n, --name PATTERN Filter run on /regexp/ or string.
- e, --exclude PATTERN Exclude /regexp/ or string from run.

Known extensions: pride, autotest
- p, --pride Pride. Show your testing pride!
- a, --autotest Connect to autotest server.

You can set up a rake task to run all your tests by adding this to your Rakefile:

require "rake/testtask"

Rake::TestTask.new(:test) do |t|
  t.libs << "test"
  t.libs << "lib"
  t.test_files = FileList["test/**/test_*.rb"]
end

  task :default => :test

== Writing Extensions

To define a plugin, add a file named minitest/XXX_plugin.rb to your project/gem. That file must be discoverable via ruby's LOAD_PATH (via rubygems or otherwise). Minitest will find and require that file using Gem.find_files. It will then try to call +plugin_XXX_init+ during startup. The option processor will also try to call +plugin_XXX_options+ passing the OptionParser instance and the current options hash. This lets you register your own command-line options. Here's a totally bogus example:
# minitest/bogus_plugin.rb:

module Minitest
  def self.plugin_bogus_options(opts, options)
    opts.on "--myci", "Report results to my CI" do
      options[:myci] = true
      options[:myci_addr] = get_myci_addr
      options[:myci_port] = get_myci_port
    end
  end

  def self.plugin_bogus_init(options)
    self.reporter << MyCI.new(options) if options[:myci]
  end
end

=== Adding custom reporters

Minitest uses composite reporter to output test results using multiple
reporter instances. You can add new reporters to the composite during
the init-plugins phase. As we saw in +plugin_bogus_init+ above, you
simply add your reporter instance to the composite via <<.

+AbstractReporter+ defines the API for reporters. You may subclass it
and override any method you want to achieve your desired behavior.

start : Called when the run has started.
record : Called for each result, passed or otherwise.
report : Called at the end of the run.
passed? : Called to see if you detected any problems.

Using our example above, here is how we might implement MyCI:

# minitest/bogus_plugin.rb

module Minitest
class MyCI < AbstractReporter
  attr_accessor :results, :addr, :port

  def initialize options
    self.results = []
    self.addr = options[:myci_addr]
    self.port = options[:myci_port]
  end

  def record result
    self.results << result
  end
end

General...
def report
    CI.connect(addr, port).send_results self.results
end
end

# code from above...
end

== FAQ

=== How to test SimpleDelegates?

The following implementation and test:

class Worker < SimpleDelegator
def work
end
end
describe Worker do
  before do
    @worker = Worker.new(Object.new)
  end

  it "must respond to work" do
     #{@worker}.must_respond_to :work
  end
end

outputs a failure:

1) Failure:
Worker#test_0001_must respond to work [bug11.rb:16]:
Expected #<Object:0x007f9e7184f0a0> (Object) to respond to #work.

Worker is a SimpleDelegate which in 1.9+ is a subclass of BasicObject.
Expectations are put on Object (one level down) so the Worker
(SimpleDelegate) hits +method_missing+ and delegates down to the
+Object.new+ instance. That object doesn't respond to work so the test
fails.

You can bypass <tt>SimpleDelegate#method_missing</tt> by extending the worker
with <tt>Minitest::Expectations</tt>. You can either do that in your setup at
the instance level, like:

before do
  @worker = Worker.new(Object.new)
@worker.extend Minitest::Expectations
end

or you can extend the Worker class (within the test file!), like:

class Worker
  include ::Minitest::Expectations
end

=== How to share code across test classes?

Use a module. That’s exactly what they’re for:

module UsefulStuff
  def useful_method
    # ...
  end
end

describe Blah do
  include UsefulStuff

  def test_whatever
    # useful_method available here
  end
end

Remember, +describe+ simply creates test classes. It’s just ruby at
the end of the day and all your normal Good Ruby Rules (tm) apply. If
you want to extend your test using setup/teardown via a module, just
make sure you ALWAYS call super. before/after automatically call super
for you, so make sure you don’t do it twice.

=== How to run code before a group of tests?

Use a constant with begin...end like this:

describe Blah do
  SETUP = begin
    # … this runs once when describe Blah starts
  end
  # …
end

This can be useful for expensive initializations or sharing state.
Remember, this is just ruby code, so you need to make sure this
technique and sharing state doesn’t interfere with your tests.
Why am I seeing `<tt>uninitialized constant MiniTest::Test (NameError)</tt>`?

Are you running the test with Bundler (e.g. via `<tt>bundle exec</tt>`)? If so, in order to require minitest, you must first add the `<tt>gem 'minitest'</tt>` to your Gemfile and run `+bundle+`. Once it's installed, you should be able to require minitest and run your tests.

Prominent Projects using Minitest:

* arel
* journey
* mime-types
* nokogiri
* rails (active_support et al)
* rake
* rdoc
* ...and of course, everything from seattle.rb...

Developing Minitest:

Minitest requires {Hoe}[https://rubygems.org/gems/hoe].

Minitest's own tests require UTF-8 external encoding.

This is a common problem in Windows, where the default external Encoding is often CP850, but can affect any platform. Minitest can run test suites using any Encoding, but to run Minitest's own tests you must have a default external Encoding of UTF-8.

If your encoding is wrong, you'll see errors like:

```ruby
--- expected
+++ actual
@@ -1,2 +1,3 @@
# encoding: UTF-8
-"Expected /\w+/ to not match "blah blah blah"."
+"Expected /\w+/ to not match # encoding: UTF-8
+"blah blah blah"."
```

To check your current encoding, run:

```
ruby -e 'puts Encoding.default_external'
```

If your output is something other than UTF-8, you can set the `RUBYOPTS` env variable to a value of `-Eutf-8`. Something like:

```
RUBYOPT='-Eutf-8' ruby -e 'puts Encoding.default_external'
```
Check your OS/shell documentation for the precise syntax (the above
will not work on a basic Windows CMD prompt, look for the SET command).
Once you've got it successfully outputing UTF-8, use the same setting
when running rake in Minitest.

=== Minitest's own tests require GNU (or similar) diff.

This is also a problem primarily affecting Windows developers. PowerShell
has a command called diff, but it is not suitable for use with Minitest.

If you see failures like either of these, you are probably missing diff tool:

4) Failure:
   TestMinitestUnitTestCase#test_assert_equal_different_long
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:936]:
   Expected: "--- expected
   +++ actual
   @@ -1 +1 @@
   "hahahahahahahahahahahahahahahahahahahaha"
   +"blahblahblahblahblahblahblahblahblahblah"
   Actual: "Expected: "hahahahahahahahahahahahahahahahahahahaha"
   Actual: "blahblahblahblahblahblahblahblahblah"

5) Failure:
   TestMinitestUnitTestCase#test_assert_equal_different_collection_hash_hex_invisible
   [D:/ruby/seattlerb/minitest/test/minitest/test_minitest_test.rb:845]:
   Expected: "No visible difference in the Hash#inspect output.
   You should look at the implementation of #== on
   Hash or its members:
   {1=>#<Object:0xXXXXXX>}
   Actual: "Expected: {1=>#<Object:0x00000030ba0470>}
          Actual: {1=>#<Object:0x00000030ba0448>}

If you use Cygwin or MSYS2 or similar there are packages that include a
GNU diff for Windows. If you don't, you can download GNU diffutils from
http://gnuwin32.sourceforge.net/packages/diffutils.htm
(make sure to add it to your PATH).

You can make sure it's installed and path is configured properly with:

diff.exe -v

There are multiple lines of output, the first should be something like:

diff (GNU diffutils) 2.8.1

If you are using PowerShell make sure you run diff.exe, not just diff,
which will invoke the PowerShell built in function.

== Known Extensions:
capybara_minitest_spec :: Bridge between Capybara RSpec matchers and Minitest::Spec expectations (e.g., `<tt>page.must_have_content("Title")</tt>`).
color_pound(spec_reporter) :: Test names print Ruby Object types in color with your Minitest Spec style tests.
minispec-metadata :: Metadata for describe/it blocks & CLI tag filter. E.g. `<tt>it "requires JS driver", js: true do</tt>` & `<tt>ruby test.rb --tag js</tt>` runs tests tagged :js.
minispec-rails :: Minimal support to use Spec style in Rails 5+.
mini-apivore :: for swagger based automated API testing.
iminitest-around :: Around block for minitest. An alternative to setup/teardown dance.
iminitest-assert_errors :: Adds Minitest assertions to test for errors raised or not raised by Minitest itself.
iminitest-autotest :: autotest is a continuous testing facility meant to be used during development.
iminitest-bacon :: minitesta-bacon extends minitest with bacon-like functionality.
iminitest-bang :: Adds support for RSpec-style let! to immediately invoke let statements before each test.
iminitest-biseet :: Helps you isolate and debug random test failures.
iminitest-blink1_reporter :: Display test results with a Blink1.
iminitest-capistrano :: Assertions and expectations for testing Capistrano recipes.
iminitest-capybara :: Capybara matchers support for minitest unit and spec.
iminitest-chef-handler :: Run Minitest suites as Chef report handlers.
iminitest-ci :: CI reporter plugin for Minitest.
iminitest-context :: Defines contexts for code reuse in Minitest specs that share common expectations.
iminitest-debugger :: Wraps assert so failed assertions drop into the ruby debugger.
iminitest-display :: Patches Minitest to allow for an easily configurable output.
iminitest-documentation :: Minimal documentation format inspired by rspec's.
iminitest-doc_reporter :: Detailed output inspired by rspec's documentation format.
iminitest-emoji :: Print out emoji for your test passes, fails, and skips.
iminitest-english :: Semantically symmetric aliases for assertions and expectations.
iminitest-excludes :: Clean API for excluding certain tests you don't want to run under certain conditions.
iminitest-fail-fast :: Reimplements RSpec's "fail fast" feature.
iminitest-filecontent :: Support unit tests with expectation results in files. Differing results will be stored again in files.
iminitestfilesystem :: Adds assertion and expectation to help testing filesystem contents.
minitest-firemock :: Makes your Minitest mocks more resilient.
minitest-focus :: Focus on one test at a time.
minitest-gcstats :: A minitest plugin that adds a report of the top tests by number of objects allocated.

minitest-global_expectations:: Support minitest expectation methods for all objects
minitest-great_expectations :: Generally useful additions to minitest's assertions and expectations.

minitest-growl :: Test notifier for minitest via growl.
minitest-happy :: GLOBALLY ACTIVATE MINITEST PRIDE! RAWR!
minitest-have_tag :: Adds Minitest assertions to test for the existence of HTML tags, including contents, within a provided string.
minitest-hooks :: Around and before_all/after_all/around_all hooks
minitest-hyper :: Pretty, single-page HTML reports for your Minitest runs
minitest-implicit-subject :: Implicit declaration of the test subject.
minitest-instrument :: Instrument ActiveSupport::Notifications when test method is executed.
minitest-instrument-db :: Store information about speed of test execution provided by minitest-instrument in database.

minitest-junit :: JUnit-style XML reporter for minitest.
minitest-keyword :: Use Minitest assertions with keyword arguments.
minitest-libnotify :: Test notifier for minitest via libnotify.
minitest-line :: Run test at line number.
minitest-logger :: Define assert_log and enable minitest to test log messages. Supports Logger and Log4r::Logger.

minitest-macruby :: Provides extensions to minitest for macruby UI testing.
minitest-matchers :: Adds support for RSpec-style matchers to minitest.

minitest-matchers_vaccine :: Adds assertions that adhere to the matcher spec, but without any expectation infections.

minitest-metadata :: Annotate tests with metadata (key-value).
minitest-mock_expectations :: Provides method call assertions for minitest.
minitest-mongoid :: Mongoid assertion matchers for Minitest.
minitest-must_not :: Provides must_not as an alias for wont in Minitest.

minitest-optional_retry :: Automatically retry failed test to help with flakiness.
minitest-osx :: Reporter for the Mac OS X notification center.

minitest-parallel_fork :: Fork-based parallelization
minitest-parallel-db :: Run tests in parallel with a single database.
minitest-power_assert :: PowerAssert for Minitest.

minitest-predicates :: Adds support for .predicate? methods.
minitest-profile :: List the 10 slowest tests in your suite.

minitest-rails :: Minitest integration for Rails 3.x.

minitest-rails-capybara :: Capybara integration for Minitest::Rails.
minitest-reporters :: Create customizable Minitest output formats.
minitest-rg :: Colored red/green output for Minitest.

minitest-rspecMocks :: Use RSpec Mocks with Minitest.
minitest-server :: minitest-server provides a client/server setup
with your minitest process, allowing your test run to send its results directly to a handler.

minitest-sequel :: Minitest assertions to speed-up development and testing of Ruby Sequel database setups.

minitest-shared_description :: Support for shared specs and shared spec subclasses

minitest-should_syntax :: RSpec-style `<tt>x.should == y</tt>` assertions for Minitest.

minitest-shouldify :: Adding all manner of shoulds to Minitest (bad idea)

minitest-snail :: Print a list of tests that take too long

minitest-spec-context :: Provides rspec-ish context method to Minitest::Spec.

minitest-spec-expect :: Expect syntax for Minitest::Spec (e.g. `expect(sequences).to_include :celery_man`).

minitest-spec-magic :: Minitest::Spec extensions for Rails and beyond.

minitest-spec-rails :: Drop in Minitest::Spec superclass for ActiveSupport::TestCase.

minitest-sprint :: Runs (Get it? It's fast!) your tests and makes it easier to rerun individual failures.

minitest-stately :: Find leaking state between tests

minitest-stub_any_instance :: Stub any instance of a method on the given class for the duration of a block.

minitest-stub-const :: Stub constants for the duration of a block.

minitest-tags :: Add tags for minitest.

minitest-unordered :: Adds a new assertion to minitest for checking the contents of a collection, ignoring element order.

minitest-vcr :: Automatic cassette managment with Minitest::Spec and VCR.

minitest_log :: Adds structured logging, data explication, and verdicts.

minitest_owrapper :: Get tests results as a TestResult object.

minitest_should :: Shoulda style syntax for minitest test::unit.

minitest_tu_shim :: Bridges between test/unit and minitest.

mongoid-minitest :: Minitest matchers for Mongoid.

mutant-minitest :: Minitest integration for mutant.

pry-rescue :: A pry plugin w/ minitest support. See pry-rescue/minitest.rb.

rspec2minitest :: Easily translate any RSpec matchers to Minitest assertions and expectations.

== Unknown Extensions:

Authors... Please send me a pull request with a description of your minitest extension.

* assay-minitest
* detroit-minitest
* em-minitest-spec
* flexmock-minitest
* guard-minitest
* guard-minitest-decisiv
* minitest-activemodel
* minitest-ar-assertions
* minitest-capybara-unit
* minitest-colorer
* minitest-deluxe
* minitest-extra-assertions
* minitest-rails-shoulda
* minitest-spec
* minitest-spec-should
* minitest-sugar
* spork-minitest

== Minitest related goods


== REQUIREMENTS:

* Ruby 2.3+. No magic is involved. I hope.

== INSTALL:

```
sudo gem install minitest
```

On 1.9, you already have it. To get newer candy you can still install the gem, and then requiring "minitest/autorun" should automatically pull it in. If not, you'll need to do it yourself:

```
gem "minitest"     # ensures you're using the gem, and not the built-in MT
require "minitest/autorun"
```

# ... usual testing stuffs ...

DO NOTE: There is a serious problem with the way that ruby 1.9/2.0 packages their own gems. They install a gem specification file, but don't install the gem contents in the gem path. This messes up Gem.find_files and many other things (gem which, gem contents, etc).

Just install minitest as a gem for real and you'll be happier.

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Found in path(s):
* /opt/cola/permits/1155785544_1619045316.26/0/minitest-5-14-2-gem/data-tar-gz/README.rdoc

1.477 guava 31.0.1-jre

1.477.1 Available under license :
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/

Found in path(s):
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/base/Present.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/cache/RemovalListener.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/cache/AbstractCache.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/RegularContiguousSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/BloomFilterStrategies.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/primitives/UnsignedInteger.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/Murmur3_128HashFunction.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/math/IntMath.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/math/DoubleUtils.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/cache/AbstractLoadingCache.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
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/FilteredMultimapValues.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/base/Utf8.java
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jar/com/google/common/collection/ComparisonChain.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/AllEqualOrdering.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ForwardingBlockingDeque.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/SortedMultisetBridge.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ForwardingImmutableMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/RangeMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ImmutableEnumMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/FilteredKeyListMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/FilteredEntryMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/TransformedListIterator.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/DescendingMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/CompactHashMap.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/UncheckedException.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/annotations/VisibleForTesting.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/reflect/TypeToken.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractCatchingFuture.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/TimeoutFuture.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractTransformFuture.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/SimpleTimeLimiter.java
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jar/com/google/common/primitives/FloatsMethodsForWeb.java

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jar/com/google/common/base/NullnessCasts.java

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jar/com/google/common/collection/NullnessCasts.java
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jar/com/google/common/util/concurrent/NullnessCasts.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/hash/Striped64.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/hash/LongAdder.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/graph/SuccessorsFunction.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/RateLimiter.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/graph/ImmutableNetwork.java
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*/
/**
* Holder for web specializations of methods of [@code Doubles]. Intended to be empty for regular
* version.
*/

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* the License.
*/
/**
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] 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.
*/
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Iterators.java
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* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/ForwardingIterator.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/ForwardingListIterator.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/AbstractSetMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/NaturalOrdering.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/Multisets.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/LinkedHashMultiset.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/RegularImmutableSet.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/Synchronized.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/ImmutableSet.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/package-info.java
* /opt/cola/permits/1208993118_1632983176.74/jar/com/google/common/collection/package-info.java
jar/com/google/common/collection/ComparatorOrdering.java
* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ListMultimap.java
* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Iterables.java
* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ForwardingMap.java
* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/AbstractMapEntry.java
* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/TreeMultimap.java
* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Ordering.java
* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/NullsFirstOrdering.java
* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/EnumBiMap.java
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* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ForwardingMapEntry.java
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* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/Lists.java
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* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/ExplicitOrdering.java
* /opt/cola/permits/1208931118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/AbstractMapBasedMultiset.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/BaseImmutableMultimap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/JdkBackedImmutableMap.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collection/JdkBackedImmutableBiMap.java

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounder.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/base/Java8Compatibility.java

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jar/com/google/common/base/JdkPattern.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/base/CommonPattern.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/base/CommonMatcher.java
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/**
* Not supported. <b>You are attempting to create a map that may contain a non-
* @code Comparable} key.</b> Proper calls will resolve to the version in
* @code ImmutableSortedMap}, not this dummy
* version.
*
* @throws UnsupportedOperationException always
* @deprecated <b>Pass a key of type @code Comparable} to use @link
* ImmutableSortedMap#of(Comparable, Object}).</b>
*/

Found in path(s):
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
jar/com/google/common/collection/ImmutableSortedMapFauxverideShim.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/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/ConsumingQueueIterator.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/io/ReaderInputStream.java
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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/InterruptibleTask.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.

This method assumes that the collection size doesn't change while the method is running.

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/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/ObjectArrays.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/collect/GwtTransient.java
* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicLongMap.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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Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular version.

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 */

/**
 ** Holder for extra methods of { code Objects} only in web. Intended to be empty for regular
 ** version.
 */

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* /opt/cola/permits/1208993118_1632983176.74/0/guava-31-0-1-jre-sources-1-
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jar/com/google/common/collection/StandardTable.java
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jar/com/google/common/collection/Table.java
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1.482 prometheus-procfs 0.7.3
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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* /opt/cola/permits/1162678670_1620891777.1/0/google-oauth-client-1-31-5-sources-jar/com/google/api/client/auth/oauth/OAuthRsaSigner.java

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* /opt/cola/permits/1162678670_1620891777.1/0/google-oauth-client-1-31-5-sources-jar/com/google/api/client/auth/oauth2/StoredCredential.java
* /opt/cola/permits/1162678670_1620891777.1/0/google-oauth-client-1-31-5-sources-jar/com/google/api/client/auth/openidconnect/IdTokenVerifier.java

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1.485 jackson-module-afterburner 2.9.10

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1.488 jackson-databind 2.11.1
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1.490 elasticsearch-rest-client-sniffer 8.2.0

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<p>
Class, field, and method level annotations for describing thread-safety policies.
</p>
Three class-level annotations describe the intended thread-safety promises of a class: 
<code>@Immutable</code>, <code>@ThreadSafe</code>, and <code>@NotThreadSafe</code>. 
<code>@Immutable</code> means that the class is immutable, and implies <code>@ThreadSafe</code>. 
<code>@NotThreadSafe</code> is optional; if a class is not annotated as thread-safe, it should be presumed not to be thread-safe, but if you want to make it extra clear, use <code>@NotThreadSafe</code>.

These annotations are relatively unintrusive and are beneficial to both users and maintainers. Users can see immediately whether a class is thread-safe, and maintainers can see immediately whether thread-safety guarantees must be preserved. Annotations are also useful to a third constituency: tools. Static code-analysis tools may be able to verify that the code complies with the contract indicated by the annotation, such as verifying that a class annotated with <code>@Immutable</code> actually is immutable.

Field and method annotations

The class-level annotations above are part of the public documentation for the class. Other aspects of a class's thread-safety strategy are entirely for maintainers and are not part of its public documentation.

Classes that use locking should document which state variables are guarded with which locks, and which locks are used to guard those variables. A common source of inadvertent non-thread-safety is when a thread-safe class consistently uses locking to guard its state, but is later modified to add either new state variables that are not adequately guarded by locking, or new methods that do not use locking properly to guard the existing state variables. Documenting which variables are guarded by which locks can help prevent both types of omissions.

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Alan Beale <biljir@pobox.com> also deserves special credit as he has, in addition to providing the 12Dicts package and being a major contributor to the ENABLE word list, given me an incredible amount of feedback and created a number of special lists (those found in the Supplement) in order to help improve the overall quality of SCOWL.

The 10 level includes the 1000 most common English words (according to the Moby (TM) Words II [MWords] package), a subset of the 1000 most common words on the Internet (again, according to Moby Words II), and frequently class 16 from Brian Kelk's "UK English Wordlist with Frequency Classification".

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The "UK English Wordlist With Frequency Classification" is also in the Public Domain:

Date: Sat, 08 Jul 2000 20:27:21 +0100
From: Brian Kelk <Brian.Kelk@cl.cam.ac.uk>

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Date: Tue, 11 Jul 2000 19:31:34 +0100

> So are you saying your word list is also in the public domain?

That is the intention.

The 20 level includes frequency classes 7-15 from Brian's word list.

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1.507 mergo 0.3.12

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```yaml
import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root
```

## 1.508 logstash-input-pipe 3.1.0

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1.511 fiber-local 1.0.0

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# Fiber::Local

A module to simplify fiber-local state.


## Features

- Easily access fiber-local state from a fiber.
- Default to shared thread-local state.

## Installation

```bash
$ bundle add fiber-local
```

```bash
```
## Usage

In your own class, e.g. `Logger`:

```ruby
class Logger
  extend Fiber::Local

  def initialize
    @buffer = []
  end

  def log(*arguments)
    @buffer << arguments
  end
end
```

Now, instead of instantiating your cache `LOGGER = Logger.new`, use `Logger.instance`. It will return a thread-local instance.

```ruby
Thread.new do
  Logger.instance
  #=> #<Logger:0x000055a14ec6be80>
end

Thread.new do
  Logger.instance
  #=> #<Logger:0x000055a14ec597d0>
end
```

In cases where you have job per fiber or request per fiber, you might want to collect all log output for a specific fiber, you can do the following:

```ruby
Logger.instance
  #=> #<Logger:0x000055a14ec6be80>

Fiber.new do
  Logger.instance = Logger.new
  #=> #<Logger:0x000055a14ec597d0>
end
```

## Contributing
We welcome contributions to this project.

1. Fork it.
2. Create your feature branch (`git checkout -b my-new-feature`).
3. Commit your changes (`git commit -am 'Add some feature'`).
4. Push to the branch (`git push origin my-new-feature`).
5. Create new Pull Request.

## See Also

- [thread-local](https://github.com/socketry/thread-local)  Strictly thread-local variables.

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1.514 cracklib 2.9.2-5build1

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1.515 go-autorest-adal 0.9.15
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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1.529 logstash-output-csv 3.0.8

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compiler/cpp/src/parse/t_field.h
compiler/cpp/src/parse_t_program.h
compiler/cpp/src/platform.h
compiler/cpp/src/thriftl.ll
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lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TFIELD.cs
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Name: traceback2
Version: 1.4.0
Summary: Backports of the traceback module
Home-page: https://github.com/testing-cabal/traceback2
Author: Testing-cabal
Author-email: testing-cabal@lists.launchpad.net
License: UNKNOWN
Description: A backport of traceback to older supported Pythons.

>>> import traceback2 as traceback

Profit.

Things to be aware of!

In Python 2.x, unlike traceback, traceback2 creates unicode output (because it depends on the linecache2 module).

Exception frame clearing silently does nothing if the interpreter in use does not support it.

traceback2._some_str, which while not an official API is so old its likely in use behaves similarly to the Python3 version - objects where unicode(obj) fails but str(object) works will be shown as b'thestrvaluerepr'.
1.540 jflex 1.6.0

1.540.1 Available under license:

BSD

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1.541 tomcat-i18n-es 9.0.63

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/**
 * Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable} key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy version.
 * @throws UnsupportedOperationException always
 * @deprecated <b>Pass a key of type {@code Comparable} to use {link ImmutableSortedMap#of(Comparable, Object)}</b>
 */

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jar/com/google/common/hash/SipHashFunction.java
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jar/com/google/common/base/StandardSystemProperty.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/CartesianList.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collect/ImmutableRangeSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/cache/LongAddables.java

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  jar/com/google/common/collection/SingletonImmutableTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ImmutableClassToInstanceMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ImmutableEnumSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ComputationException.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/SingletonImmutableList.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/AbstractIndexedListIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/RegularImmutableSortedSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ImmutableSortedMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/DiscreteDomain.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ComparisonChain.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ArrayTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ImmutableSortedSetFauxverideShim.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/JdkPattern.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TreeRangeMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/FilteredMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/SortedMultisetBridge.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/TransformedListIterator.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/UnmodifiableSortedMultiset.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/ForwardingImmutableSet.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/DescendingImmutableSortedSet.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/Collections2.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableMapValues.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/StandardTable.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/PeekingIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/StandardRowSortedTable.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableEntry.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/Tables.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableBiMap.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ImmutableSortedSet.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/graph/AbstractGraph.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/graph/EndpointPairIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/graph/LinkedHashMultimapGwtSerializationDependencies.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/graph/MultiEdgesConnecting.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/graph/ValueGraph.java
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jar/com/google/common/escape/UnicodeEscaper.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/SequentialExecutor.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Stopwatch.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AbstractCheckedFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/CheckedFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Doubles.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/CharMatcher.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Ints.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Chars.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/thirdparty/publicsuffix/TrieParser.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Shorts.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/escape/Escaper.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/Booleans.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>TOD(O)kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

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  jar/com/google/common/collection/MultimapBuilder.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/io/MoreFiles.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/collection/ImmutableMapEntry.java
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  jar/com/google/common/hash/package-info.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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  jar/com/google/common/util/concurrent/AggregateFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/CollectionFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/FakeTimeLimiter.java
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  jar/com/google/common/escape/CharEscaper.java
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  jar/com/google/common/escape/CharEscaperBuilder.java
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  jar/com/google/common/io/AppendableWriter.java
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  jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/UncheckedTimeoutException.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
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  jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
  jar/com/google/common/util/concurrent/TimeLimiter.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ArrayListMultimap.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/NullsLastOrdering.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/RegularImmutableSet.java
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* /opt/cola/permits/110923413_1606872220.46/0/guava-27-1-jre-sources-2.jar/com/google/common/collection/MutableClassToInstanceMap.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/AbstractIterator.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/ByteStreams.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/LittleEndianDataOutputStream.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Functions.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Throwables.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/MultiInputStream.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/Resources.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/eventbus/AsyncEventBus.java
info.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/io/Flushables.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/HashBiMap.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/FinalizableReference.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Defaults.java

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/**
 * Outer class that exists solely to let us write [@code Partially.GwtIncompatible] 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):
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collect/JdkBackedImmutableMultiset.java

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ListenerCallQueue.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collection/SortedMultisets.java

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jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Verify.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/eventbus/SubscriberExceptionContext.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/collection/AbstractTable.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Strings.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/ContiguousSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-
jar/com/google/common/util/concurrent/ForwardingLock.java
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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/util/concurrent/AtomicDoubleArray.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/cache/LongAdder.java

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* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/RegularImmutableSortedMultiset.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1110923413_1606872220.46/0/guava-27-1-jre-sources-2-jar/com/google/common/collection/SortedIterables.java
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 * Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular
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1.547 py3-six 1.15.0-r0

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1.548 gzip 1.6-5+b1

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1.551 x-oauth2 0.0.0-20190604053449-0f29369cfe45

1.551.1 Available under license :

```go
package RESOURCE

import (  
        "github.com/gophercloud/gophercloud"
        "github.com/gophercloud/gophercloud/pagination"
)
```
// RESOURCE represents...
type Resource struct {
}

type commonResult struct {
gophercloud.Result
}

// GetResult is the response from a Get operation. Call its Extract method
// to interpret it as a RESOURCE.
type GetResult struct {
    commonResult
}

// CreateResult is the response from a Create operation. Call its Extract method
// to interpret it as a RESOURCE.
type CreateResult struct {
    commonResult
}

// DeleteResult is the response from a Delete operation. Call its ExtractErr to
// determine if the request succeeded or failed.
type DeleteResult struct {
    gophercloud.ErrResult
}

// UpdateResult is the result of an Update request. Call its Extract method to
// interpret it as a RESOURCE.
type UpdateResult struct {
    commonResult
}

// ResourcePage is a single page of RESOURCE results.
type ResourcePage struct {
    pagination.LinkedPageBase
}

// IsEmpty determines whether or not a page of RESOURCES contains any results.
func (r ResourcePage) IsEmpty() (bool, error) {
    resources, err := ExtractResources(r)
    return len(resources) == 0, err
}

// NextPageURL extracts the "next" link from the links section of the result.
func (r ResourcePage) NextPageURL() (string, error) {
    var s struct {
        Links struct {
            Next string `json:"next"`
        }
    }
    return s.Links.Next, err
}
Contributor Tutorial
====================

This tutorial is to help new contributors become familiar with the processes used by the Gophercloud team when adding a new feature or fixing a bug.

While we have a defined process for working on Gophercloud, we’re very mindful that everyone is new to this in the beginning. Please reach out for help or ask for clarification if needed. No question is ever "dumb" or not worth our time answering.

To begin, go to [Step 1](step-01-introduction.md).

Step 5: Writing the Code
========================

At this point, you should have:

- [x] Identified a feature or bug fix
- [x] Opened an Issue about it
- [x] Located the project’s service code which validates the feature or fix
- [x] Have an OpenStack environment available to test with

Now it's time to write the actual code! We recommend reading over the [CONTRIBUTING](https://github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](https://github/CONTRIBUTING.md#getting-started) section will help you set up a `git` repository correctly.

We encourage you to browse the existing Gophercloud code to find examples of similar implementations. It would be a _very_ rare occurrence for you to be implementing something that hasn't already been done.

Use the existing packages as templates and mirror the style, naming, and logic.

Types of Pull Requests
----------------------

The amount of changes you plan to make will determine how much code you should submit as Pull Requests.

### A Single Bug Fix

If you're implementing a single bug fix, then creating one `git` branch and submitting one Pull Request is fine.

### Adding a Single Field

If you're adding a single field, then a single Pull Request is also fine. See [#662](https://github.com/gophercloud/gophercloud/pull/662) as an example of this.

If you plan to add more than one missing field, you will need to open a Pull Request for _each_ field.

### Adding a Single API Call

Single API calls can also be submitted as a single Pull Request. See [#722](https://github.com/gophercloud/gophercloud/pull/722) as an example of this.

### Adding a Suite of API Calls

If you're adding support for a "suite" of API calls (meaning: Create, Update, Delete, Get), then you will need to create one Pull Request for _each_ call.

The following Pull Requests are good examples of how to do this:

* [https://github.com/gophercloud/gophercloud/pull/584](https://github.com/gophercloud/gophercloud/pull/584)
You can also use the provided [template](/docs/contributor-tutorial/.template) as it contains a lot of the repeated boiler plate code seen in each resource. However, please make sure to thoroughly review and edit it as needed. Leaving templated portions in-place might be interpreted as rushing through the work and will require further rounds of review to fix.

### Adding an Entire OpenStack Project

To add an entire OpenStack project, you must break each set of API calls into individual Pull Requests. Implementing an entire project can be thought of as implementing multiple API suites.

An example of this can be seen from the Pull Requests referenced in [#723](https://github.com/gophercloud/gophercloud/issues/723).

What to Include in a Pull Request
---------------------------------

Each Pull Request should contain the following:

1. The actual Go code to implement the feature or bug fix
2. Unit tests
3. Acceptance tests
4. Documentation

Whether you want to bundle all of the above into a single commit or multiple commits is up to you. Use your preferred style.

### Unit Tests

Unit tests should provide basic validation that your code works as intended.

Please do not use JSON fixtures from the API reference documentation. Please generate your own fixtures using the OpenStack environment you're [testing](step-04-acceptance-testing.md) with.

### Acceptance Tests

Since unit tests are not run against an actual OpenStack environment, acceptance tests can arguably be more important. The acceptance tests that you include in your Pull Request should confirm that your implemented code works as intended with an actual OpenStack environment.

### Documentation
All documentation in Gophercloud is done through in-line `godoc`. Please make sure to document all fields, functions, and methods appropriately. In addition, each package has a `doc.go` file which should be created or amended with details of your Pull Request, where appropriate.

Dealing with Related Pull Requests
----------------------------------

If you plan to open more than one Pull Request, it's only natural that code from one Pull Request will be dependent on code from the prior Pull Request.

There are two methods of handling this:

### Create Independent Pull Requests

With this method, each Pull Request has all of the code to fully implement the code in question. Each Pull Request can be merged in any order because it's self contained.

Use the following `git` workflow to implement this method:

```
```shell
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout master
$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Pull Requests can be merged in any order
* Additional commits to one Pull Request are independent of other Pull Requests

Disadvantages of this Method:

* There will be _a lot_ of duplicate code in each Pull Request
* You will have to rebase all other Pull Requests and resolve a good amount of merge conflicts.
### Create a Chain of Pull Requests

With this method, each Pull Request is based off of a previous Pull Request. Pull Requests will have to be merged in a specific order since there is a defined relationship.

Use the following `git` workflow to implement this method:

```
```
$ git checkout master
$ git pull
$ git checkout -b identityv3-regions-create
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Create"

$ git checkout -b identityv3-regions-update
$ (write your code)
$ git add .
$ git commit -m "Implementing Regions Update"
```

Advantages of this Method:

* Each Pull Request becomes smaller since you are building off of the last

Disadvantages of this Method:

* If a Pull Request requires changes, you will have to rebase _all_ child Pull Requests based off of the parent.

The choice of method is up to you.

---

Once you have your code written, submit a Pull Request to Gophercloud and proceed to [Step 6](step-06-code-review.md).

Step 6: Code Review

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

Once you've submitted a Pull Request, three things will happen automatically:

1. Travis-CI will run a set of simple tests:
   a. Unit Tests
   b. Code Formatting checks
c. `go vet` checks

2. Coveralls will run a coverage test.
3. [OpenLab](https://openlabtesting.org/) will run acceptance tests.

Depending on the results of the above, you might need to make additional changes to your code.

While you're working on the finishing touches to your code, it is helpful to add a `'[wip]` tag to the title of your Pull Request.

You are most welcomed to take as much time as you need to work on your Pull Request. As well, take advantage of the automatic testing that is done to each commit.

### Travis-CI

If Travis reports code formatting issues, please make sure to run `gofmt` on all of your code. Travis will also report errors with unit tests, so you should ensure those are fixed, too.

### Coveralls

If Coveralls reports a decrease in test coverage, check and make sure you have provided unit tests. A decrease in test coverage is _sometimes_ unavoidable and ignorable.

### OpenLab

OpenLab does not yet run a full suite of acceptance tests, so it's possible that the acceptance tests you've included were not run. When this happens, a core member for Gophercloud will run the tests manually.

There are times when a core reviewer does not have access to the resources required to run the acceptance tests. When this happens, it is essential that you've run them yourself (See [Step 4](step-04.md)).

Request a Code Review

When you feel your Pull Request is ready for review, please leave a comment requesting a code review. If you don't explicitly ask for a code review, a core member might not know the Pull Request is ready for review.

Additionally, if there are parts of your implementation that you are unsure about, please ask for help. We're more than happy to provide advice.

During the code review process, a core member will review the code you've
submitted and either request changes or request additional information. Generally these requests fall under the following categories:

1. Code which needs to be reformatted (See our [Style Guide](/docs/STYLEGUIDE.md) for conventions used.

2. Requests for additional information about the validity of something. This might happen because the included supporting service code URLs don't have enough information.

3. Missing unit tests or acceptance tests.

Submitting Changes
-----------------

If a code review requires changes to be submitted, please do not squash your commits. Please only add new commits to the Pull Request. This is to help the code reviewer see only the changes that were made.

It's Never Personal
-------------------

Code review is a healthy exercise where a new set of eyes can sometimes spot items forgotten by the author.

Please don't take change requests personally. Our intention is to ensure the code is correct before merging.

---

Once the code has been reviewed and approved, a core member will merge your Pull Request.

Please proceed to [Step 7](step-07-congratulations.md).

package testing

import (
    "fmt"
    "net/http"
    "testing"
    
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
)

// ListResult provides a single page of RESOURCE results.
const ListResult =`
// GetResult provides a Get result.
const GetResult = `{
}
`

// CreateRequest provides the input to a Create request.
const CreateRequest = `{
}
`

// UpdateRequest provides the input to a Update request.
const UpdateRequest = `{
}
`

// UpdateResult provides an update result.
const UpdateResult = `{
}
`

// FirstResource is the first resource in the List request.
var FirstResource = resources.Resource{}

// SecondResource is the second resource in the List request.
var SecondResource = resources.Resource{}

// SecondResourceUpdated is how SecondResource should look after an Update.
var SecondResourceUpdated = resources.Resource{}

// ExpectedResourcesSlice is the slice of resources expected to be returned from ListResult.
var ExpectedResourcesSlice = []resources.Resource{FirstResource, SecondResource}

// HandleListResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a list of two resources.
func HandleListResourceSuccessfully(t *testing.T) {
    th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
        th.TestMethod(t, r, "GET")
        th.TestHeader(t, r, "Accept", "application/json")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    })
}
w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, ListResult)
}

// HandleGetResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that responds with a single resource.
func HandleGetResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
th.TestMethod(t, r, "GET")
th.TestHeader(t, r, "Accept", "application/json")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

w.Header().Set("Content-Type", "application/json")
w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, GetResult)
})
}

// HandleCreateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource creation.
func HandleCreateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "POST")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    th.TestJSONRequest(t, r, CreateRequest)
    w.WriteHeader(http.StatusCreated)
    fmt.Fprintf(w, GetResult)
})
}

// HandleDeleteResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource deletion.
func HandleDeleteResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {
    th.TestMethod(t, r, "DELETE")
    th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
    w.WriteHeader(http.StatusNoContent)
})
}

// HandleUpdateResourceSuccessfully creates an HTTP handler at `/resources` on the
// test handler mux that tests resource update.
func HandleUpdateResourceSuccessfully(t *testing.T) {
th.Mux.HandleFunc(`/resources/9fe1d3`, func(w http.ResponseWriter, r *http.Request) {


th.TestMethod(t, r, "PATCH")
th.TestHeader(t, r, "X-Auth-Token", client.TokenID)
th.TestJSONRequest(t, r, UpdateRequest)

w.WriteHeader(http.StatusOK)
fmt.Fprintf(w, UpdateResult)
}
}
package RESOURCE

import (
    "github.com/gophercloud/gophercloud"
    "github.com/gophercloud/gophercloud/pagination"
)

// ListOptsBuilder allows extensions to add additional parameters to
// the List request
type ListOptsBuilder interface {
    ToResourceListQuery() (string, error)
}

// ListOpts provides options to filter the List results.
type ListOpts struct {

    // ToResourceListQuery formats a ListOpts into a query string.
    func (opts ListOpts) ToResourceListQuery() (string, error) {
        q, err := gophercloud.BuildQueryString(opts)
        return q.String(), err
    }

    // List retrieves a list of RESOURCES.
    func List(client *gophercloud.ServiceClient, opts ListOptsBuilder) pagination.Pager {
        url := listURL(client)
        if opts != nil {
            query, err := opts.ToResourceListQuery()
            if err != nil {
                return pagination.Pager{Err: err}
            }
            url += query
        }
            return ResourcePage{pagination.LinkedPageBase{PageResult: p}}
        })
    }

    // Get retrieves details of a RESOURCE.
    func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
_ r.Err = client.Get(getURL(client, id), &r.Body, nil)
return
)

// CreateOptsBuilder allows extensions to add additional parameters to
// the Create request.
type CreateOptsBuilder interface {
ToResourceCreateMap() (map[string]interface{}, error)
}

// CreateOpts provides options used to create a RESOURCE.
type CreateOpts struct {
}

// ToResourceCreateMap formats a CreateOpts into a create request.
func (opts CreateOpts) ToResourceCreateMap() (map[string]interface{}, error) {
return gophercloud.BuildRequestBody(opts, "resource")
}

// Create creates a new RESOURCE.
func Create(client *gophercloud.ServiceClient, opts CreateOptsBuilder) (r CreateResult) {
b, err := opts.ToResourceCreateMap()
if err != nil {
  r.Err = err
  return
}
  _, r.Err = client.Post(createURL(client), &b, &r.Body, &gophercloud.RequestOpts{
OkCodes: []int{201},
})
return
}

// Delete deletes a RESOURCE.
func Delete(client *gophercloud.ServiceClient, id string) (r DeleteResult) {
  _, r.Err = client.Delete(deleteURL(client, id), nil)
  return
}

// UpdateOptsBuilder allows extensions to add additional parameters to
// the Update request.
type UpdateOptsBuilder interface {
ToResourceUpdateMap() (map[string]interface{}, error)
}

// UpdateOpts represents parameters to update a RESOURCE.
type UpdateOpts struct {
}
// ToUpdateCreateMap formats a UpdateOpts into an update request.
func (opts UpdateOpts) ToResourceUpdateMap() (map[string]interface{}, error) {
    return gophercloud.BuildRequestBody(opts, "resource")
}

// Update modifies the attributes of a RESOURCE.
func Update(client *gophercloud.ServiceClient, id string, opts UpdateOptsBuilder) (r UpdateResult) {
    b, err := opts.ToResourceUpdateMap()
    if err != nil {
        r.Err = err
        return
    }
    _, r.Err = client.Patch(updateURL(client, id), b, &r.Body, &gophercloud.RequestOpts{
        OkCodes: []int{200},
    })
    return
}

package testing

import {
    "testing"
    "github.com/gophercloud/gophercloud/openstack/service/vN/resources"
    "github.com/gophercloud/gophercloud/pagination"
    th "github.com/gophercloud/gophercloud/testhelper"
    "github.com/gophercloud/gophercloud/testhelper/client"
}

func TestListResources(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)
    count := 0
        count++
        actual, err := resources.ExtractResources(page)
        th.AssertNoErr(t, err)
        th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
        return true, nil
    })
    th.AssertNoErr(t, err)
    th.AssertEquals(t, count, 1)
    return true, nil
}
func TestListResourcesAllPages(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleListResourcesSuccessfully(t)

    allPages, err := resources.List(client.ServiceClient(), nil).AllPages()
    th.AssertNoErr(t, err)
    actual, err := resources.ExtractResources(allPages)
    th.AssertNoErr(t, err)
    th.AssertDeepEquals(t, ExpectedResourcesSlice, actual)
}

func TestGetResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleGetResourceSuccessfully(t)

    actual, err := resources.Get(client.ServiceClient(), "9fe1d3").Extract()
    th.AssertNoErr(t, err)
}

func TestCreateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleCreateResourceSuccessfully(t)

    createOpts := resources.CreateOpts{
        Name: "resource two",
    }

    actual, err := resources.Create(client.ServiceClient(), createOpts).Extract()
    th.AssertNoErr(t, err)
}

func TestDeleteResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
    HandleDeleteResourceSuccessfully(t)

    res := resources.Delete(client.ServiceClient(), "9fe1d3")
    th.AssertNoErr(t, res.Err)
}

func TestUpdateResource(t *testing.T) {
    th.SetupHTTP()
    defer th.TeardownHTTP()
}

Open Source Used in cnBR Operations Hub 22.2 5053
HandleUpdateResourceSuccessfully(t)

updateOpts := resources.UpdateOpts{
    Description: "Staging Resource",
}

actual, err := resources.Update(client.ServiceClient(), "9fe1d3", updateOpts).Extract()
th.AssertNoErr(t, err)
th.AssertDeepEquals(t, SecondResourceUpdated, *actual)
}

package RESOURCE

import "github.com/gophercloud/gophercloud"

func listURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func getURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func createURL(client *gophercloud.ServiceClient) string {
    return client.ServiceURL("resource")
}

func deleteURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

func updateURL(client *gophercloud.ServiceClient, id string) string {
    return client.ServiceURL("resource", id)
}

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Step 4: Acceptance Testing

If we haven't started working on the feature or bug fix, why are we talking about Acceptance Testing now?

Before you implement a feature or bug fix, you _must_ be able to test your code in a working OpenStack environment. Please do not submit code which you have only tested with offline unit tests.

Blindly submitting code is dangerous to the Gophercloud project. Developers from all over the world use Gophercloud in many different projects. If you submit code which is untested, it can cause these projects to break or become unstable.

And, to be frank, submitting untested code will inevitably cause someone else
to have to spend time fixing it.

If you don't have an OpenStack environment to test with, we have lots of documentation [here](/acceptance) to help you build your own small OpenStack environment for testing.

---

Once you've confirmed you are able to test your code, proceed to [Step 5](step-05-pull-requests.md) to (finally!) start working on a Pull Request.

`*/`

Package NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

Example to List RESOURCE

Example to Create a RESOURCE

Example to Update a RESOURCE

Example to Delete a RESOURCE

`*/`

package RESOURCE

Step 7: Congratulations!

At this point your code is merged and you've either fixed a bug or added a new feature to Gophercloud!

We completely understand that this has been a long process. We appreciate your patience as well as the time you have taken for working on this. You've made Gophercloud a better project with your work.

Step 2: Create an Issue

Every patch / Pull Request requires a corresponding issue. If you're fixing a bug for an existing issue, then there's no need to create a new issue.

However, if no prior issue exists, you must create an issue.

Reporting a Bug

When reporting a bug, please try to provide as much information as you can.

The following issues are good examples for reporting a bug:
Feature Request
-------------

If you've noticed that a feature is missing from Gophercloud, you'll also need to create an issue before doing any work. This is to start a discussion about whether or not the feature should be included in Gophercloud. We don't want to see you put in hours of work only to learn that the feature is out of scope of the project.

Feature requests can come in different forms:

### Adding a Feature to Gophercloud Core

The "core" of Gophercloud is the code which supports API requests and responses: pagination, error handling, building request bodies, and parsing response bodies are all examples of core code.

Modifications to core will usually have the most amount of discussion than other requests since a change to core will affect _all_ of Gophercloud.

The following issues are examples of core change discussions:

* https://github.com/gophercloud/gophercloud/issues/310
* https://github.com/gophercloud/gophercloud/issues/613
* https://github.com/gophercloud/gophercloud/issues/729
* https://github.com/gophercloud/gophercloud/issues/713

### Adding a Missing Field

If you've found a missing field in an existing struct, submit an issue to request having it added. These kinds of issues are pretty easy to report and resolve.

You should also provide a link to the actual service's Python code which defines the missing field.

The following issues are examples of missing fields:

* https://github.com/gophercloud/gophercloud/issues/620
* https://github.com/gophercloud/gophercloud/issues/621
There's one situation which can make adding fields more difficult: if the field is part of an API extension rather than the base API itself. An example of this can be seen in this issue.

Here, a user reported fields missing in the 'Get' function of `networking/v2/networks`. The fields reported missing weren't missing at all, they're just part of various Networking extensions located in `networking/v2/extensions`.

### Adding a Missing API Call

If you've found a missing API action, create an issue with details of the action. For example:

* https://github.com/gophercloud/gophercloud/issues/715
* https://github.com/gophercloud/gophercloud/issues/719

You'll want to make sure the API call is part of the upstream OpenStack project and not an extension created by a third-party or vendor. Gophercloud only supports the OpenStack projects proper.

### Adding a Missing API Suite

Adding support to a missing suite of API calls will require more than one Pull Request. However, you can use a single issue for all PRs.

Examples of issues which track the addition of a missing API suite are:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Note how the issue breaks down the implementation by request types (Create, Update, Delete, Get, List).

Also note how these issues provide links to the service's Python code. These links are not required for _issues_, but it's usually a good idea to provide them, anyway. These links _are required_ for PRs and that will be covered in detail in a later step of this tutorial.

### Adding a Missing OpenStack Project

These kinds of feature additions are large undertakings. Adding support for
an entire OpenStack project is something the Gophercloud team very much appreciates, but you should be prepared for several weeks of work and interaction with the Gophercloud team.

An example of how to create an issue for an entire project can be seen here:

* https://github.com/gophercloud/gophercloud/issues/723

---

With all of the above in mind, proceed to [Step 3](step-03-code-hunting.md) to learn about Code Hunting.

**Step 3: Code Hunting**

If you plan to submit a feature or bug fix to Gophercloud, you must be able to prove your code correctly works with the OpenStack service in question.

Let's use the following issue as an example: [https://github.com/gophercloud/gophercloud/issues/621](https://github.com/gophercloud/gophercloud/issues/621). In this issue, there's a request being made to add support for `availability_zone_hints` to the `networking/v2/networks` package.

Meaning, we want to change:

```go
type Network struct {
    ID        string `json:"id"
    Name      string `json:"name"
    AdminStateUp bool  `json:"admin_state_up"
    Status    string `json:"status"
    Subnets   []string `json:"subnets"
    TenantID  string `json:"tenant_id"
    Shared    bool  `json:"shared"
}
```

...to look like

```go
type Network struct {
    ID        string `json:"id"
    Name      string `json:"name"
    AdminStateUp bool  `json:"admin_state_up"
    Status    string `json:"status"
    Subnets   []string `json:"subnets"
    TenantID  string `json:"tenant_id"
}
```
We need to be sure that `availability_zone_hints` is a field which really does exist in the OpenStack Neutron project and it's not a field which was added as a customization to a single OpenStack cloud.

In addition, we need to ensure that `availability_zone_hints` is really a `[]string` and not a different kind of type.

One way of verifying this is through the [OpenStack API reference documentation](https://developer.openstack.org/api-ref/network/v2/). However, the API docs might either be incorrect or they might not provide all of the details we need to know in order to ensure this field is added correctly.

> Note: when we say the API docs might be incorrect, we are _not_ implying that the API docs aren't useful or that the contributors who work on the API docs are wrong. OpenStack moves fast. Typos happen. Forgetting to update documentation happens.

Since the OpenStack service itself correctly accepts and processes the fields, the best source of information on how the field works is in the service code itself.

Continuing on with using #621 as an example, we can find the definition of `availability_zone_hints` in the following piece of code:

https://github.com/openstack/neutron/blob/8e9959725eda4063a318b4ba6af1e3494cad9e35/neutron/objects/network.py#L191

The above code confirms that `availability_zone_hints` is indeed part of the `Network` object and that its type is a list of strings (`[]string`).

This example is a best-case situation: the code is relatively easy to find and it's simple to understand. However, there will be times when proving the implementation in the service code is difficult. Make no mistake, this is _not_ fun work. This can sometimes be more difficult than writing the actual patch for Gophercloud. However, this is an essential step to ensuring the feature or bug fix is correctly added to Gophercloud.

Examples of good code hunting can be seen here:

* https://github.com/gophercloud/gophercloud/issues/539
* https://github.com/gophercloud/gophercloud/issues/555
* https://github.com/gophercloud/gophercloud/issues/571
* https://github.com/gophercloud/gophercloud/issues/583
* https://github.com/gophercloud/gophercloud/issues/605

Code Hunting Tips
-----------------

OpenStack projects differ from one to another. Code is organized in different ways. However, the following tips should be useful across all projects.

* The logic which implements Create and Delete actions is usually either located in the "model" or "controller" portion of the code.

* Use Github's search box to search for the exact field you're working on. Review all results to gain a good understanding of everywhere the field is used.

* When adding a field, look for an object model or a schema of some sort.

---

Proceed to [Step 4](step-04-acceptance-testing.md) to learn about Acceptance Testing.

Step 1: Read Our Guides

There are two introductory guides you should read before proceeding:

* [CONTRIBUTING](/github/CONTRIBUTING.md): The Contributing guide is a detailed document which describes the different ways you can contribute to Gophercloud and how to get started. This tutorial you're reading is very similar to that guide, but presented in a different way. We still recommend you read it over.

* [STYLE](/docs/STYLEGUIDE.md): The Style Guide documents coding conventions used in the Gophercloud project.

---

When you've finished reading those guides, proceed to [Step 2](step-02-issues.md).

1.552 python 3.5.3-1+deb9u4

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

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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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Mersenne Twister
-------------

Open Source Used In cnBR Operations Hub 22.2 5072
The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
-------
The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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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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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.

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1.553 mime-types 3.3.1-1.ph4

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1.554 s3transfer 0.5.2

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1.555 protocol-http 0.15.1

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protocol-http-93bc456/lib/protocol/http/error.rb
* /opt/cola/permits/1161785212_1620748984.89/0/socketry-protocol-http-v0-15-1-0-gd0a581b-tar-gz/socketry-
protocol-http-93bc456/spec/protocol/http_spec.rb
* /opt/cola/permits/1161785212_1620748984.89/0/socketry-protocol-http-v0-15-1-0-gd0a581b-tar-gz/socketry-
protocol-http-93bc456/lib/protocol/http/middleware.rb
* /opt/cola/permits/1161785212_1620748984.89/0/socketry-protocol-http-v0-15-1-0-gd0a581b-tar-gz/socketry-
protocol-http-93bc456/lib/protocol/http/body/buffered.rb
* /opt/cola/permits/1161785212_1620748984.89/0/socketry-protocol-http-v0-15-1-0-gd0a581b-tar-gz/socketry-
protocol-http-93bc456/lib/protocol/http/header/split.rb
1.556 jersey-bean-validation 2.25.1

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

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1.566 json-smart 2.4.2
1.566.1 Available under license:

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Manifest-Version: 1.0
Bnd-LastModified: 1617553143521
Build-Jdk: 11.0.9.1
Built-By: uriel
Bundle-Description: JSON (JavaScript Object Notation) is a lightweight data-interchange format. It is easy for humans to read and write. It is easy for machines to parse and generate. It is based on a subset of the JavaScript Programming Language, Standard ECMA-262 3rd Edition - December 1999. JSON is a text format that is completely language independent but uses conventions that are familiar to programmers of the C-family of languages, including C, C++, C#, Java, JavaScript, Perl, Python, and many others. These properties make JSON an ideal data-interchange language.
Bundle-DocURL: https://urielch.github.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: json-smart
Bundle-SymbolicName: net.minidev.json-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.2
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.js on.parser,net.minidev.json.reader,net.minidev.json.writer";version="2 .4.2",net.minidev.json.annotate;version="2.4.2",net.minidev.json.parser;uses:="net.minidev.json.writer";version="2.4.2",net.minidev.json.r eader;uses:="net.minidev.json";version="2.4.2",net.minidev.json.writer;uses:="net.minidev.json.net.minidev.json.parser";version="2.4.2"
Import-Package: net.minidev.asm;version="[2.4,3)

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Manifest-Version: 1.0
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Bundle-DocURL: https://urielch.github.io/
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: json-smart
Bundle-SymbolicName: net.minidev.json-smart
Bundle-Vendor: Chemouni Uriel
Bundle-Version: 2.4.2
Created-By: Apache Maven Bundle Plugin
Export-Package: net.minidev.json;uses:="net.minidev.asm,net.minidev.js on.parser,net.minidev.json.reader,net.minidev.json.writer";version="2 .4.2",net.minidev.json.annotate;version="2.4.2",net.minidev.json.parser;uses:="net.minidev.json.writer";version="2.4.2",net.minidev.json.r eader;uses:="net.minidev.json";version="2.4.2",net.minidev.json.writer;uses:="net.minidev.json.net.minidev.json.parser";version="2.4.2"
Import-Package: net.minidev.asm;version="[2.4,3)

Open Source Used In cnBR Operations Hub 22.2 5149
1.567 ipaddr 1.2.2

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1.568 jackson-dataformat-yaml 2.9.10

1.568.1 Available under license:

# Jackson JSON processor

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1.569 libseccomp 2.5.1-1ubuntu1~18.04.2

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Version 2.1, February 1999

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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/netty_epoll_linuxsocket.c

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* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/netty_epoll_native.c
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/Native.java

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Found in path(s):
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
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*/
/**
 * Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the { @code TCP_QUICKACK} option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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Found in path(s):
*/opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollTcpInfo.java
*/opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
*/opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/Epoll.java
*/opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
*/opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
*/opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/package-info.java
*/opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
*/opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java

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Found in path(s):
* /opt/cola/permits/1208967452_1632975979.09/0/netty-transport-native-epoll-4-1-68-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java

1.573 gopkg.in-yaml 2.4.0

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1.575 zlib 1.2.11

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

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*/

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1.576 bind 9.16.1-0ubuntu2.10

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Programs

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

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The End

1.589 pycryptodomex 3.14.1

1.589.1 Available under license:

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Last updated: 2009-02-28

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1.598 file 5.32-2ubuntu0.4

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1.599 sqlx 1.3.4

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1.602 elastic-app-search 7.8.0

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POST /api/as/v1/engines/node-modules/search.json
authorization: Bearer api-hean6g8dmxnm2shqiqag757a
content-type: application/json
x-swiftype-client: elastic-app-search-javascript
x-swiftype-client-version: 7.8.0
accept: */*
accept-encoding: gzip, deflate
body:
{
  "query": "cat",
  "page": {
    "size": 0
  },
  "filters": {
    "all": [
      "license": "BSD"
    ]
  },
  "facets": {
    "dependencies": [
      {
        "type": "value",
        "size": 3
      }
    ]
  },
  "analytics": {
    "tags": [
      "Facet-Only"
    ]
  }
}

HTTP/1.1 200 OK
date: Thu, 27 Sep 2018 21:19:12 GMT
content-type: application/json; charset=utf-8
transfer-encoding: chunked
connection: close
vary: Accept-Encoding, Origin
status: 200 OK
x-frame-options: SAMEORIGIN
x-xss-protection: 1; mode=block
x-content-type-options: nosniff
etag: W/"18ee65079f161780b7d9ce13afee0128"
cache-control: max-age=0, private, must-revalidate
x-request-id: 0dbfcbf3f3379f524c0cb5530ec9e9bc16
x-runtime: 0.130653
x-swiftype-frontend-datacenter: dal05
x-swiftype-frontend-node: web02.dal05
x-swiftype-edge-datacenter: dal05
x-swiftype-edge-node: web02.dal05
POST /api/as/v1/engines/node-modules/search.json
authorization: Bearer api-hean6g8dmxnnm2shqiag757a
content-type: application/json
x-swiftype-client: elastic-app-search-javascript
x-swiftype-client-version: 7.8.0
accept: */*
accept-encoding: gzip deflate

body: {
"query": "cat",
"page": {"size": 1},
"filters": {},
"facets": {
"license": {
"type": "value",
"size": 3
}
}
}

HTTP/1.1 200 OK

POST /api/as/v1/engines/node-modules/search.json
authorization: Bearer api-hean6g8dmxnnm2shqiag757a
content-type: application/json
x-swiftype-client: elastic-app-search-javascript
x-swiftype-client-version: 7.8.0
accept: */*
accept-encoding: gzip deflate

body: {
"query": "cat",
"page": {"size": 0},
"filters": {},
"facets": {
"license": {
"type": "value",
"size": 3
}
},
"analytics": {
"tags": ["FromSERP", "Disjunctive"]
}
}

HTTP/1.1 200 OK
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Copyright 2012-2019 Elasticsearch B.V.
POST /api/as/v1/engines/node-modules/search.json
authorization: Bearer api-heap6g8dngxmzshq757a
content-type: application/json
x-swiftype-client: elastic-app-search-javascript
x-swiftype-client-version: 7.8.0
accept: */*
accept-encoding: gzip, deflate
body:
{"query":"cat","page":{"size":0},"filters":{},"facets":{"license":"["type":value,"data":{"value":"MIT","count":101},"value":"BSD","count":33},"value":"MIT/X11","count":33]"}}

HTTP/1.1 200 OK
date: Thu, 27 Sep 2018 20:36:08 GMT
content-type: application/json; charset=utf-8
transfer-encoding: chunked
connection: close
vary: Accept-Encoding, Origin
status: 200 OK
x-frame-options: SAMEORIGIN
x-xss-protection: 1; mode=block

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1.604 libxext 1.3.4-0ubuntu1

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1.607 libsmi 0.5.0-r1

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tools/shhopt.c, tools/shhopt.h:

Title: shhopt - library for parsing command line options.
Version: 1.1.2
Entered-date: 23MAR97
Description: C-functions for parsing command line options, both
   traditional one-character options, and GNU’ish
   --long-options.
Keywords: programming, library, lib, commandline, options
Author: s.h.huseby@usit.uio.no (Sverre H. Huseby)
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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"
@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_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip:: install-shlibs

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

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

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 package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

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 is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
-   Unix SMB/CIFS implementation.
+   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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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<project xmlns:xc="http://www.w3.org/2001/XMLSchema-instance"
         xmlns="http://maven.apache.org/POM/4.0.0"
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  </parent>

  <licenses>
    <license>
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      <artifactId>common-config</artifactId>
    </dependency>
  </dependencies>
</project>
```xml
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<artifactId>junit</artifactId>
<scope>test</scope>
</dependency>
</dependencies>
</project>

Found in path(s):
* /opt/cola/permits/12573211157_1642800614.05/0/kafka-schema-serializer-5.5.1-jar/META-INF/maven/io.confluent/kafka-schema-serializer/pom.xml

1.610 gmp 6.1.2+dfsg-2
1.610.1 Available under license:

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### 1.614 jackson-databind 2.13.1

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# Jackson JSON Processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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

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

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

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

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

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

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

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

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

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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
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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   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.

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

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a "work that uses the Library" with the Library to produce a
work containing portions of the Library, and distribute that work
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modification of the work for the customer's own use and reverse
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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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That's all there is to it!

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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.

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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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* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/FieldWriter.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/RecordComponentWriter.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/Context.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/Handler.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/Attribute.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/FieldVisitor.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/TypeReference.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/ModuleWriter.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/SymbolTable.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/signature/SignatureReader.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/ByteVector.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/AnnotationWriter.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/Handle.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/MethodTooLargeException.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/ConstantDynamic.java
* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
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* /opt/ws_local/PERMITS_SQL/1068774065_1594456654.59/0/asm-8-0-1-sources-
  jar/org/objectweb/asm/signature/SignatureWriter.java
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* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
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  Original author of sensord.
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* Mark M. Hoffman
  Many improvements to the libsensors configuration file scanner.
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  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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1.639 kube-openapi 0.0.0-20211115234752-e816edb12b65

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `{"name":"the name","url":"the url"}`
    const licenseYAML = "name: the name
url: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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<tr>
<td>Main Mesa code</td>
<td>src/mesa/</td>
<td>MIT</td>
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</tbody>
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Device drivers src/mesa/drivers/* MIT, generally

Gallium code src/gallium/ MIT

Ext headers GL/glext.h Khronos
GL/glxext.h Khronos
GL/wglext.h Khronos
KHR/khrplatform.h Khronos

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include/GL/glext.h
include/GL/glxext.h
include/GL/wglext.h :

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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).
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/bind/DateTypeAdapter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/bind/TimeTypeAdapter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/bind/LazilyParsedNumber.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/internal/bind/SqlDateTypeAdapter.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/stream/JsonScope.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/stream/JsonReader.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonSyntaxException.java
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* /opt/cola/permits/1000738091_1646171488.9/0/gson-2-8-5-sources-jar/com/google/gson/JsonSerializationContext.java
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lib/gssapi/mechglue/g_context_time.c
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    kadmin/server/ipropd_svc.c
    lib/kdb/iprop.x
    lib/kdb/kdb_convert.c
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    lib/kdb/kdb_log.h
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## Commands to generate dependency files
GEN_DEPS.c=$(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc=$(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

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

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

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@sHELL) -ec "$(GEN_DEPS.c) $< \n| sed \"$/\n\.o[ ]*:l@ : /g\" > $@;\n[ -s $@ ]|| rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@sHELL) -ec "$(GEN_DEPS.cc) $< \n| sed \"$/\n\.o[ ]*:l@ : /g\" > $@;\n[ -s $@ ]|| rm -f $@'

## Versioned libraries rules
%.s$(SO).$(SO_TARGET_VERSION_MAJOR): %.s$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.s: %.s$(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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1.661 logstash-input-unix 3.1.1

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Manifest-Version: 1.0
Bnd-LastModified: 1535387016033
Build-Jdk: 1.8.0_181
Built-By: somov
Bundle-Description: YAML 1.1 parser and emitter for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: SnakeYAML
Bundle-SymbolicName: org.yaml.snakeyaml
Bundle-Version: 1.23.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.yaml.snakeyaml;version="1.23",org.yaml.snakeyaml.composer;version="1.23",org.yaml.snakeyaml.constructor;version="1.23",org.yaml.snakeyaml.emitter;version="1.23",org.yaml.snakeyaml.error;version="1.23",org.yaml.snakeyaml.events;version="1.23",org.yaml.snakeyaml.extensions.compactnotation;version="1.23",org.yaml.snakeyaml.introspector;version="1.23",org.yaml.snakeyaml.nodes;version="1.23",org.yaml.snakeyaml.parser;version="1.23",org.yaml.snakeyaml.reader;version="1.23",org.yaml.snakeyaml.representer;version="1.23",org.yaml.snakeyaml.resolver;version="1.23",org.yaml.snakeyaml.serializer;version="1.23",org.yaml.snakeyaml.tokens;version="1.23",org.yaml.snakeyaml.util;version="1.23"
Import-Package: org.yaml.snakeyaml;version="[1.23,2)",org.yaml.snakeyaml.composer;version="[1.23,2)",org.yaml.snakeyaml.emitter;version="[1.23,2)",org.yaml.snakeyaml.error;version="[1.23,2)",org.yaml.snakeyaml.events;version="[1.23,2)",org.yaml.snakeyaml.introspector;version="[1.23,2)",org.yaml.snakeyaml.nodes;version="[1.23,2)",org.yaml.snakeyaml.parser;version="[1.23,2)",org.yaml.snakeyaml.reader;version="[1.23,2)",org.yaml.snakeyaml.resolver;version="[1.23,2)",org.yaml.snakeyaml.serializer;version="[1.23,2)",org.yaml.snakeyaml.tokens;version="[1.23,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-3.5.0.201709291849

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1.663 bind 9.16.27-r1
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*bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*Bug 420894 - ClassCastException in DefaultBindingResolver.resolveType(Type)
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 434600 - Incorrect null analysis error reporting on type parameters
*Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*   Andy Clement - Contributions for
*   Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/ParameterizedSingleTypeReference.java

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* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Bug 406973 - [compiler] Parse MethodParameters attribute
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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 370930 - NonNull annotation not considered for enhanced for loops
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 393719 - [compiler] inconsistent warnings on iteration variables
*Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
* Jesper S Moller - Contribution for
*bug 401853 - Eclipse Java compiler creates invalid bytecode (java.lang.VerifyError)
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/ForeachStatement.java
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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*Bug 440282 - [resource] Resource leak detection false negative with empty finally block
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/Block.java
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/core/compiler/batch/BatchCompiler.java
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* Stephan Herrmann - contributions for
* bug 336428 - [compiler][null] bogus warning "redundant null check" in condition of do {} while() loop
* bug 186342 - [compiler][null] Using annotations for null checking
*bug 36519 - editorial cleanup after bug 186342 and bug 365387
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 385626 - @NonNull fails across loop boundaries
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 376263 - Bogus "Potential null pointer access" warning
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*bug 406384 - Internal error with I20130413
*Bug 415413 - [compiler][null] NullpointerException in Null Analysis caused by interaction of LoopingFlowContext and FinallyFlowContext
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 455557 - [jdt] NPE LoopingFlowContext.recordNullReference
*Bug 455723 - Nonnull argument not correctly inferred in loop
*Bug 415790 - [compiler][resource]Incorrect potential resource leak warning in for loop with close in try/catch
*Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
  * Jesper S Moller - contributions for
*bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/flow/LoopingFlowContext.java
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*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*Bug 440687 - [compiler][batch][null] improve command line option for external annotations

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/batch/ClasspathJar.java
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* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
* Stephan Herrmann - Contributions for
* *bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* *bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* *bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* *bug 383368 - [compiler][null] syntactic null analysis for field references
* *bug 401017 - [compiler][null] casted reference to @Nullable field lacks a warning
* *bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 430150 - [1.8][null] stricter checking against type variables
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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*  Igor Fedorenko - extracted from ElementsImpl

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* bug 186342 - [compiler][null] Using annotations for null checking
* bug 387612 - Unreachable catch block...exception is never thrown from the try
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 401456 - Code compiles from javac/intellij, but fails from eclipse
* bug 401271 - StackOverflowError when searching for a methods references
* bug 405706 - Eclipse compiler fails to give compiler error when return type is a inferred generic
* Bug 408441 - Type mismatch using Arrays.asList with 3 or more implementations of an interface with the interface type as the last parameter
* Bug 413958 - Function override returning inherited Generic Type
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
* Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
* Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
* Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
* Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
* Bug 426589 - [1.8][compiler] Compiler error with generic method/constructor invocation as vars argument
* Bug 426590 - [1.8][compiler] Compiler error with tenary operator
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 426998 - [1.8][compiler] method(java.lang.Class, java.lang.String) not applicable for the arguments (java.lang.Class, java.lang.String)
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method
* Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
* Bug 427728 - [1.8] Type Inference rejects calls requiring boxing/unboxing
* Bug 427218 - [1.8][compiler] Verify error varargs + inference
* Bug 426836 - [1.8] special handling for return type in references to method getClass()?
* Bug 427628 - [1.8] regression : The method * is ambiguous for the type *
* Bug 428352 - [1.8][compiler] Resolution errors don't always surface
* Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type
*Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
*Bug 428811 - [1.8][compiler] Type witness unnecessarily required
*Bug 429424 - [1.8][inference] Problem inferring type of method's parameter
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*Bug 452194 - Code no longer compiles in 4.4.1, but with confusing error
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 456236 - [1.8][null] Cannot infer type when constructor argument is annotated with @Nullable
*Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*Bug 462083 - [1.8][inference] Java 8 generic return type mismatch with interface involving type parameter.
  * Jesper S Moller - Contributions for
*Bug 378674 - "The method can be declared as static" is wrong
  * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
    * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
  * Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
    * Bug 559618 - No compiler warning for import from same package
    * Bug 560630 - No warning on unused import on class from same package

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/lookup/Scope.java

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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 467032 - TYPE_USE Null Annotations: IllegalArgumentException with annotated arrays of Enum when accessed via BinaryTypeBinding

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*BU14 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* Bug 407191 - [1.8] Binary access support for type annotations
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* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 425783 - An internal error occurred during: "Requesting Java AST from selection".
  java.lang.StackOverflowError
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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/* Jesper S Moller - Contributions for */
/* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335 */

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/NullTypeBinding.java
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*     bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
*     bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*     bug 349326 - [1.7] new warning for missing try-with-resources
*     bug 186342 - [compiler][null] Using annotations for null checking
*     bug 358903 - Filter practically unimportant resource leak warnings
*     bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
*     bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*     bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*     Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*     Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*     Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
*     Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*     Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*     Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*     Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

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*     bug 370639 - [compiler][resource] restore the default for resource leak warnings
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*     bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*     bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*     Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
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*     Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*     Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*     Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.

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*Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution?
*Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
*Bug 424930 - [1.8][compiler] Regression: "Cannot infer type arguments" error from compiler.
*Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 429203 - [1.8][compiler] NPE in AllocationExpression.binding
*Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*Bug 434297 - [1.8] NPE in LambdaExpression.analyseCode with lambda expression nested in a conditional expression
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraint on a type parameter's bound
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*Bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
* Till Brychcy - Contributions for
* bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/parser/AbstractCommentParser.java
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* Jesper Steen Moller - Contributions for:
* Bug 412149: [1.8][compiler] Emit repeated annotations into the designated container

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*     Bug 382350 - [1.8][compiler] Unable to invoke inherited default method via I.super.m() syntax
*     Bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*     Bug 404728 - [1.8]NPE on QualifiedSuperReference error
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* Stephan Herrmann - Contributions for
* Bug 360328 - [compiler][null] detect null problems in nested code (local class inside a loop)
* Bug 388630 - @NonNull diagnostics at line 0
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
* Bug 424727 - [compiler][null] NullPointerException in
nullAnnotationUnsupportedLocation(ProblemReporter.java:5708)
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Keigo Imai - Contribution for bug 38903 - Cannot extend inner class as an anonymous class when it extends the outer class
* Pierre-Yves B. <pyvesdev@gmail.com> - Contributions for
* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
* Bug 546084 - Using Junit 5s MethodSource leads to ClassCastException

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*bug 400710 - [1.8][compiler] synthetic access to default method generates wrong code
*Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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*bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*bug 421543 - [1.8][compiler] Compiler fails to recognize default method being turned into abstract by subtype
* Jesper S Moller - Contributions for
*Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Bug 449467 - [1.8][compiler] Invalid lambda deserialization with anonymous class
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* Carmi Grushko - Bug 465048 - Binding is null for class literals in synchronized blocks
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* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 358903 - Filter practically unimportant resource leak warnings
* bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject into account
* bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
* Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
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*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 417758 - [1.8][null] Null safety compromise during array creation.
*Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409247 - [1.8][compiler] Verify error with code allocating multidimensional array
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*   *bug 332637 - Dead Code detection removing code that isn't dead
*   *bug 391517 - java.lang.VerifyError on code that runs correctly in Eclipse 3.7 and eclipse 3.6
*   *bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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* Jesper S Moller - Contributions for
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
* Frits Jalvingh - contributions for bug 533830.
* Red Hat Inc. - add module-info Javadoc support
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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 367203 - [compiler][null] detect assigning null to nonnull argument
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 401030 - [1.8][null] Null analysis support for lambda methods.
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
***************************************************************************************

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/ast/AbstractMethodDeclaration.java
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*Bug 440687 - [compiler][batch][null] improve command line option for external annotations
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* * bug 185682 - Increment/decrement operators mark local variables as read
* * bug 186342 - [compiler][null] Using annotations for null checking
* * bug 365519 - editorial cleanup after bug 186342 and bug 365387
* * bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* * Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
* * Bug 458396 - NPE in CodeStream.invoke()
* * Jesper S Moller - Contributions for
* * bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
* * bug 331649 - [compiler][null] consider null annotations for fields
* * bug 383368 - [compiler][null] syntactic null analysis for field references
* * bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* * Jesper S Moller <jesper@selskabet.org> - Contributions for
* * bug 378674 - "The method can be declared as static” is wrong
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*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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bug 343713 - [compiler] bogus line number in constructor of inner class in 1.5 compliance
bug 349326 - [1.7] new warning for missing try-with-resources
bug 186342 - [compiler][null] Using annotations for null checking
bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
bug 383690 - [compiler] location of error re uninitialized final field should be aligned
bug 331649 - [compiler][null] consider null annotations for fields
bug 383368 - [compiler][null] syntactic null analysis for field references
bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject.Inject into account
Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator
Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
bug 386692 - Missing "unused" warning on "autowired" fields

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*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
bug 292478 - Report potentially null across variable assignment
bug 335093 - [compiler][null] minimal hook for future null annotation support
bug 349326 - [1.7] new warning for missing try-with-resources
bug 186342 - [compiler][null] Using annotations for null checking
bug 358903 - Filter practically unimportant resource leak warnings
bug 370639 - [compiler][resource] restore the default for resource leak warnings
bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
bug 383368 - [compiler][null] syntactic null analysis for field references
bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
Bug 430150 - [1.8][null] stricter checking against type variables
Bug 453483 - [compiler][null][loop] Improve null analysis for loops
Jesper S Moller - Contributions for

Bug 378674 - “The method can be declared as static” is wrong
Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
Bug 529556 - [18.3] Add content assist support for ‘var’ as a type

Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for

Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
Bug 426616 - [1.8][compiler] Type Annotations, multiple problems

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*bug 383368 - [compiler][null] syntactic null analysis for field references
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   *bug 335093 - [compiler][null] minimal hook for future null annotation support
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   *bug 186342 - [compiler][null] Using annotations for null checking
   *bug 365983 - [compiler][null] AIOOB with null annotation analysis and varargs
   *bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
   *bug 370930 - NonNull annotation not considered for enhanced for loops
   *bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
   *bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
   *bug 331649 - [compiler][null] consider null annotations for fields
   *bug 383368 - [compiler][null] syntactic null analysis for field references
   *Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
   *Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
   *Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
   *Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
   *Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
   *Bug 417758 - [1.8][null] Null safety compromise during array creation.
   *Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
   *Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
   *Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
   *Bug 428352 - [1.8][compiler] Resolution errors don't always surface
   *Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
   *Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
   *Bug 453483 - [compiler][null][loop] Improve null analysis for loops
   *Bug 455723 - Nonnull argument not correctly inferred in loop
   *
   * Andy Clement - Contributions for
   * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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   * Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
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* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class

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 * Bug 455723 - Nonnull argument not correctly inferred in loop 
 * Jesper S Moller - Contributions for 
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 * Bug 406457 - [1.8][compiler] Analysis for effectively final variables fails to consider loops 
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* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*bug 186342 - [compiler][null] Using annotations for null checking
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*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 416183 - [1.8][compiler][null] Overload resolution fails with null annotations
*Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
*Bug 424624 - [1.8][null] if a static-object with annotation @NonNull is used, a warning is shown
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
*Bug 457079 - Regression: type inference
*Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
*Bug 455180 - IllegalStateException in AnnotatableTypeSystem.getRawType
*Bug 470467 - [null] Nullness of special Enum methods not detected from .class file

*******************************************************************************
* Contributors:
* IBM Corporation - initial API and implementation
* Stephan Herrmann - contributions for
* bug 337868 - [compiler][model] incomplete support for package-info.java when using SearchableEnvironment
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
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* bug 282152 - [1.5][compiler] Generics code rejected by Eclipse but accepted by javac
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 426792 - [1.8][inference][impl] generify new type inference engine
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*Bug 431269 - [1.8][compiler][null] StackOverflow in nullAnnotatedReadableName
*Bug 431408 - Java 8 (1.8) generics bug

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*Bug 435962 - [RC2] StackOverflowError when building
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 438250 - [1.8][null] NPE trying to report bogus null annotation conflict
*Bug 438179 - [1.8][null] 'Contradictory null annotations' error on type variable with explicit null-annotation.
*Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
*Bug 456459 - Discrepancy between Eclipse compiler and javac - Enums, interfaces, and generics
*Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
*Bug 462790 - [null] NPE in Expression.computeConversion()
*Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
* Jesper S Møller <jesper@selskabet.org> - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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- bug 186342 - [compiler][null] Using annotations for null checking

Contributors:
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Stephan Herrmann - Contributions for
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
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*   Stephan Herrmann - Contribution for
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 383368 - [compiler][null] syntactic null analysis for field references
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*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* Bug 328281 - visibility leaks not detected when analyzing unused field in private class
* Bug 300576 - NPE Computing type hierarchy when compliance doesn't match libraries
* Bug 354536 - compiling package-info.java still depends on the order of compilation units
* Bug 349326 - [1.7] new warning for missing try-with-resources
* Bug 358903 - Filter practically unimportant resource leak warnings
*Bug 395777 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*Bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 434570 - Generic type mismatch for parametrized class annotation attribute with inner class
*Bug 444024 - [1.8][compiler][null] Type mismatch error in annotation generics assignment which happens "sometimes"
*Bug 459667 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous
classes
* het@google.com - Bug 456986 - Bogus error when annotation processor generates annotation type
* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178

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* tyeung@bea.com - initial API and implementation
* olivier_thomann@ca.ibm.com - add hashCode() and equals(..) methods
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*bug 185682 - Increment/decrement operators mark local variables as read

*bug 331649 - [compiler][null] consider null annotations for fields

*bug 383668 - [compiler][null] syntactic null analysis for field references

*Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null

*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)

*Bug 458396 - NPE in CodeStream.invoke()

Jesper S Moller - Contributions for

*Bug 378674 - "The method can be declared as static" is wrong

Robert Roth <robert.roth.off@gmail.com> - Contributions for

*Bug 361039 - NPE in FieldReference.optimizedBooleanConstant

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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8][compiler] Enable reflected parameter names during annotation processing
* Bug 400830: [1.8][formatter] Code formatter for Java 8
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  * Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
  * bug 133125 - [compiler][null] need to report the null status of expressions and analyze them simultaneously
  * bug 292478 - Report potentially null across variable assignment
  * bug 324178 - [null] ConditionalExpression.nullStatus(..) doesn't take into account the analysis of condition itself
  * bug 354554 - [null] conditional with redundant condition yields weak error message
  * bug 349326 - [1.7] new warning for missing try-with-resources
  * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  * bug 383368 - [compiler][null] syntactic null analysis for field references
  * bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
  * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  * Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
  * Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
  * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
  * Bug 426078 - [1.8] VerifyError when conditional expression passed as an argument
  * Bug 418537 - [1.8][null] Fix null type annotation analysis for poly conditional expressions
  * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
  * Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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* bug 407191 - [1.8] Binary access support for type annotations
* Stephen Herrmann - Contribution for
* Bug 440474 - [null] textual encoding of external null annotations

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*/opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/codegen/CachedIndexEntry.java
*/opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/parser/RecoveryScannerData.java
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* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
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* - Stephan Herrmann - Contributions for
*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject.Inject into account
*bug 382069 - [null] Make the null analysis consider JUnit's assertNotEqual similarly to assertions
*Bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*Bug 425183 - [1.8][inference] make CaptureBinding18 safe
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
*Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* Bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* Bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/parser/NLSTag.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/classfmt/InnerClassInfo.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/ProblemFieldBinding.java
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/util/HashtableOfLong.java
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/env/ISourceImport.java
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 * Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
 * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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* Perry James - nullStatus method improvement (165346)
* Stephan Herrmann - Contribution for
*bug 383368 - [compiler][null] syntactic null analysis for field references
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*bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 361407 - Resource leak warning when resource is assigned to a field outside of constructor
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*******************************************************************************
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet ILS8 18.x (Part G of JSR335 spec)
*Bug 424710 - [1.8][compiler] CCE in SingleNameReference.localVariableBinding
*Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  * Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
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* Jesper Steen Møller - Contribution for bug 406973 - [compiler] Parse MethodParameters attribute
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
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* Jesper S Møller <jesper@selskabet.org> - Contributions for
* Bug 382350 - [1.8][compiler] Unable to invoke inherited default method via L.super.m() syntax
* Bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
* Jesper S Møller <jesper@selskabet.org> - Contributions for
* Bug 378674 - "The method can be declared as static" is wrong
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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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  jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintFormula.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/lookup/ConstraintExceptionFormula.java

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* Stephan Herrmann - Contributions for
*bug 342671 - ClassCastException: org.eclipse.jdt.internal.compiler.lookup.SourceTypeBinding cannot be cast to org.eclipse.jdt.internal.compiler.lookup.ArrayBinding
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 416181 - [1.8][compiler][null] Invalid assignment is not rejected by the compiler
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 434600 - Incorrect null analysis error reporting on type parameters
*Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 265744 - Enum switch should warn about missing default
*bug 374605 - Unreasonable warning for enum-based switch statements
*bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated

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Bug 441208 - [1.8][null]SuppressWarnings("null") does not suppress / marked Unnecessary

Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
*******************************************************************************/

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/impl/IrritantSet.java
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* IBM Corporation - fix for 342936
* Kenneth Olson - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
* Dennis Hendriks - Contribution for bug 188796 - [jsr199] Using JSR199 to extend ECJ
* Frits Jalvingh - fix for bug 533830.
*******************************************************************************/

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  *bug 186342 - [compiler][null] Using annotations for null checking
  *bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 388795 - [compiler] detection of name clash depends on order of super interfaces
*bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
*bug 390883 - [1.8][compiler] Unable to override default method
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 401246 - [1.8][compiler] abstract class method should now trump conflicting default methods
*bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*bug 403867 - [1.8][compiler] Suspect error about duplicate default methods
*bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*bug 395681 - [compiler] Improve simulation of javac6 behavior from bug 317719 after fixing bug 388795
*bug 409473 - [compiler] JDT cannot compile against JRE 1.8
*bug 420080 - [1.8] Overridden Default method is reported as duplicated
*bug 404690 - [1.8][compiler] revisit bridge generation after VM bug is fixed
*bug 410325 - [1.7][compiler] Generified method override different between javac and eclipse compiler
*bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*bug 440773 - [1.8][null]DefaultLocation.RETURN_TYPE erroneously affects method parameters in @NonNullByDefault
*bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*bug 446442 - [1.8] merge null annotations from super methods

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*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 427163 - [1.8][null] bogus error "Contradictory null specification" on varags
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 * *Bug 429813 - [1.8][dom ast] IMethodBinding#getJavaElement() should return IMethod for lambda
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 331649 - [compiler][null] consider null annotations for fields
*Bug 466308 - [hovering] Javadoc header for parameter is wrong with annotation-based null analysis
* Jesper S Møller <jesper@selskabet.org> - Contributions for
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 265744 - Enum switch should warn about missing default
*bug 374605 - Unreasonable warning for enum-based switch statements
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*******************************************************************************

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*   bug 349326 - [1.7] new warning for missing try-with-resources
*   bug 186342 - [compiler][null] Using annotations for null checking
*   bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*   bug 370639 - [compiler][resource] restore the default for resource leak warnings
*   bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*   bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*   bug 395977 - [compiler][resource] Resource leak warning behavior possibly incorrect for anonymous inner class
*   bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*   Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*   Bug 392338 - [1.8][compiler][null] Detect semantically invalid null type annotations
*   Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*   Bug 416267 - NPE in QualifiedAllocationExpression.resolveType
*   Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*   Bug 427438 - [1.8][compiler] NPE at
*   Jesper S Moller <jesper@selskabet.org> - Contributions for
*   bug 378674 - "The method can be declared as static" is wrong
*   Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*   Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method
*   Till Brychcy - Contributions for
*   bug 413460 - NonNullByDefault is not inherited to Constructors when accessed via Class File
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** IBM Corporation - Fix for bug 328575
** IBM Corporation - Java 8 support
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* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/ElementValuePair.java
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* Till Brychcy - Contributions for
* Bug 467482 - TYPE_USE null annotations: Incorrect "Redundant null check"-warning
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*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* Stephan Herrmann - Contribution for
*bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
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*bug 331649 - [compiler][null] consider null annotations for fields
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*Bug 378674 - "The method can be declared as static" is wrong
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/* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/apt/util/ArchiveFileObject.java */
/* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/tool/Archive.java */
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 * Stephan Herrmann - Contributions for
 * bug 332637 - Dead Code detection removing code that isn't dead
 * bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
 * bug 349326 - [1.7] new warning for missing try-with-resources
 * bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
 * bug 358903 - Filter practically unimportant resource leak warnings
 * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"

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*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 401088 - [compiler][null] Wrong warning "Redundant null check" inside nested try statement
*bug 401092 - [compiler][null] Wrong warning "Redundant null check" in outer catch of nested try
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*bug 384380 - False positive on a ?? Potential null pointer access ?? after a continue
*Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
*Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
* Jesper Steen Moller - Contributions for
*bug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*
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* Stephan Herrmann - Contribution for
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 425460 - [1.8] [inference] Type not inferred on stream.toArray
*Bug 426792 - [1.8][inference][impl] generify new type inference engine
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

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*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
*Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/lookup/ArrayBinding.java
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* het@google.com - Bug 441790
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/apt/model/AnnotationMirrorImpl.java
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* Stephan Herrmann - Contributions for
* bug 325755 - [compiler] wrong initialization state after conditional expression
* bug 320170 - [compiler] [null] Whitebox issues in null analysis
* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead

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* bug 341499 - [compiler][null] allocate extra bits in all methods of UnconditionalFlowInfo
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* bug 386181 - [compiler][null] wrong transition in UnconditionalFlowInfo.mergedWith()
* bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 454031 - [compiler][null][loop] bug in null analysis; wrong "dead code" detection
* Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*******************************************************************************

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/flow/UnconditionalFlowInfo.java
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* Jesper S Moller - Contributions for
*Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile
*Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)
*Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Andy Clement (GoPivotal, Inc) aclment@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Bug 439889 - [1.8][compiler] [lambda] Deserializing lambda fails with IllegalArgumentException:
* "Invalid lambda deserialization"
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/codegen/ConstantPool.java
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* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
*bug 379784 - [compiler] "Method can be static" is not getting reported
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 371614 - [compiler][resource] Wrong "resource leak" problem on return/throw inside while loop
*Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
*Bug 444964 - [1.7+][resource] False resource leak warning (try-with-resources for ByteArrayOutputStream - return inside for loop)
*Bug 396575 - [compiler][resources] Incorrect Errors/Warnings check for potential resource leak when surrounding with try-catch
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 378674 - "The method can be declared as static" is wrong
* Keigo Imai - Contribution for bug 388903 - Cannot extend inner class as an anonymous class when it extends the outer class
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/BlockScope.java
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*******************************************************************************
* NonStaticAccessToStaticField
* NonStaticAccessToStaticMethod
* Task
* ExpressionShouldBeAVariable
* AssignmentHasNoEffect
* IBM Corporation - added the following constants
  * TooManySyntheticArgumentSlots
  * TooManyArrayDimensions
  * TooManyBytesForStringConstant
* TooManyMethods
* TooManyFields
* NonBlankFinalLocalAssignment
* ObjectCannotHaveSuperTypes
* MissingSemiColon
* InvalidParenthesizedExpression
* EnclosingInstanceInConstructorCall
* BytecodeExceeds64KLimitForConstructor
* IncompatibleReturnTypeForNonInheritedInterfaceMethod
* UnusedPrivateMethod
* UnusedPrivateConstructor
* UnusedPrivateType
* UnusedPrivateField
* IncompatibleExceptionInThrowsClauseForNonInheritedInterfaceMethod
* InvalidExplicitConstructorCall
* IBM Corporation - added the following constants
  * PossibleAccidentalBooleanAssignment
  * SuperfluousSemicolon
  * IndirectAccessToStaticField
  * IndirectAccessToStaticMethod
  * IndirectAccessToStaticType
  * BooleanMethodThrowingException
* UnnecessaryCast
* UnnecessaryArgumentCast
* UnnecessaryInstanceof
* FinallyMustCompleteNormally
* UnusedMethodDeclaredThrownException
* UnusedConstructorDeclaredThrownException
* InvalidCatchBlockSequence
* UnqualifiedFieldAccess
* IBM Corporation - added the following constants
  * Javadoc
  * JavadocUnexpectedTag
  * JavadocMissingParamTag
  * JavadocMissingParamName
  * JavadocDuplicateParamName
  * JavadocInvalidParamName
  * JavadocMissingReturnTag
  * JavadocDuplicateReturnTag
* JavadocMissingThrowsTag
* JavadocMissingThrowsClassName
* JavadocInvalidThrowsClass
* JavadocDuplicateThrowsClassName
* JavadocInvalidThrowsClassName
* JavadocMissingSeeReference
* JavadocInvalidSeeReference
* JavadocInvalidSeeHref
* JavadocInvalidSeeArgs
* JavadocMissing
* JavadocInvalidTag
* JavadocMessagePrefix
* EmptyControlFlowStatement
* IBM Corporation - added the following constants
* IllegalUsageOfQualifiedTypeReference
* InvalidDigit
* IBM Corporation - added the following constants
* ParameterAssignment
* FallthroughCase
* IBM Corporation - added the following constants
  * UnusedLabel
  * UnnecessaryNLSTag
  * LocalVariableMayBeNull
  * EnumConstantsCannotBeSurroundedByParenthesis
  * JavadocMissingIdentifier
  * JavadocNonStaticTypeFromStaticInvocation
  * RawTypeReference
  * NoAdditionalBoundAfterTypeVariable
  * UnsafeGenericArrayForVarargs
  * IllegalAccessFromTypeVariable
  * AnnotationValueMustBeArrayInitializer
  * InvalidEncoding
  * CannotReadSource
  * EnumStaticFieldInInInitializerContext
  * ExternalProblemNotFixable
  * ExternalProblemFixable
* IBM Corporation - added the following constants
  * AnnotationValueMustBeAnEnumConstant
  * OverridingMethodWithoutSuperInvocation
  * MethodMustOverrideOrImprove
  * TypeHidingTypeParameterFromParameter
  * TypeHidingTypeParameterFromMethod
  * TypeHidingType
* IBM Corporation - added the following constants
  * NullLocalVariableReference
  * PotentialNullLocalVariableReference
  * RedundantNullCheckOnNullLocalVariable
  * NullLocalVariableComparisonYieldsFalse
* RedundantLocalVariableNullAssignment
* NullLocalVariableInstanceOfYieldsFalse
* RedundantNullCheckOnNonNullLocalVariable
* NonNullLocalVariableComparisonYieldsFalse
* IBM Corporation - added the following constants
  * InvalidUsageOfTypeParametersForAnnotationDeclaration
  * InvalidUsageOfTypeParametersForEnumDeclaration
* IBM Corporation - added the following constants
  * RedundantSuperinterface
* Benjamin Muskalla - added the following constants
  * MissingSynchronizedModifierInInheritedMethod
* Stephan Herrmann - added the following constants
  * UnusedObjectAllocation
  * PotentiallyUnclosedCloseable
  * PotentiallyUnclosedCloseableAtExit
* UnclosedCloseable
* UnclosedCloseableAtExit
* ExplicitlyClosedAutoCloseable
  * RequiredNonNullButProvidedNull
  * RequiredNonNullButProvidedPotentialNull
  * RequiredNonNullButProvidedUnknown
* NullAnnotationNameMustBeQualified
  * IllegalReturnNullityRedefinition
  * IllegalRedefinitionToNonNullParameter
  * IllegalDefinitionToNonNullParameter
* ParameterLackingNonNullAnnotation
* ParameterLackingNullableAnnotation
  * PotentialNullMessageSendReference
* RedundantNullCheckOnNonNullMessageSend
* CannotImplementIncompatibleNullness
  * RedundantNonNullAnnotation
  * RedundantNonNullDefaultAnnotation
  * RedundantNonNullDefaultAnnotationPackage
  * RedundantNonNullDefaultAnnotationType
  * RedundantNonNullDefaultAnnotationMethod
  * ContradictoryNullAnnotations
  * IllegalAnnotationForBaseType
  * RedundantNullCheckOnSpecdNonNullLocalVariable
  * SpecdNonNullLocalVariableComparisonYieldsFalse
  * RequiredNonNullButProvidedSpecdNullable
* MissingDefaultCase
  * MissingEnumConstantCaseDespiteDefault
  * UninitializedLocalVariableHintMissingDefault
  * UninitializedBlankFinalFieldHintMissingDefault
* ShouldReturnValueHintMissingDefault
  * IllegalModifierForInterfaceDefaultMethod
  * InheritedDefaultMethodConflictsWithOtherInherited
  * ConflictingNullAnnotations
*ConflictingInheritedNullAnnotations
*UnsafeElementTypeConversion
*ArrayReferencePotentialNullReference
*DereferencingNullableExpression
*NullityMismatchingTypeAnnotation
*NullityMismatchingTypeAnnotationSuperHint
*NullityUncheckedTypeAnnotationDetail
*NullityUncheckedTypeAnnotationDetailSuperHint
*NullableFieldReference
*UninitializedNonNullField
*UninitializedNonNullFieldHintMissingDefault
*NonNullMessageSendComparisonYieldsFalse
*RedundantNullCheckOnNonNullSpecdField
*NonNullSpecdFieldComparisonYieldsFalse
*NonNullExpressionComparisonYieldsFalse
*RedundantNullCheckOnNonNullExpression
*ReferenceExpressionParameterNullityMismatch
*ReferenceExpressionParameterNullityUnchecked
*ReferenceExpressionReturnNullRedef
*ReferenceExpressionReturnNullRedefUnchecked
*DuplicateInheritedDefaultMethods
*SuperAccessCannotBypassDirectSuper
*SuperCalICannotBypassOverride
*ConflictingNullAnnotations
*ConflictingInheritedNullAnnotations
*UnsafeElementTypeConversion
*PotentialNullUnboxing
*NullUnboxing
*NullExpressionReference
*PotentialNullExpressionReference
*RedundantNullCheckAgainstNonNullException
*NullAnnotationUnsupportedLocation
*NullAnnotationUnsupportedLocationAtType
*NullityMismatchTypeArgument
*ContradictoryNullAnnotationsOnBound
*UnsafeNullnessCast
*ContradictoryNullAnnotationsInferred
*NonNullDefaultDetailIsNotEvaluated
*NullNotCompatibleToFreeTypeVariable
*NullityMismatchAgainstFreeTypeVariable
*ImplicitObjectBoundNoNullDefault
*IllegalParameterNullityRedefinition
*ContradictoryNullAnnotationsInferredFunctionType
*IllegalReturnNullityRedefinitionFreeTypeVariable
*unlikelyCollectionMethodArgumentType
*UnlikelyEqualsArgumentType

* Jesper S Moller - added the following constants
*TargetTypeNotAFunctionalInterface
*OuterLocalMustBeEffectivelyFinal
*IllegalModifiersForPackage
*DuplicateAnnotationNotMarkedRepeatable
*DisallowTargetForContainerAnnotation
*RepeatedAnnotationWithContainerAnnotation
*ContainingAnnotationMustHaveValue
*ContainingAnnotationHasNonDefaultMembers
*ContainingAnnotationHasWrongValue
*ContainingAnnotationHasShorterRetention
*RepeatableAnnotationHasTargets
*RepeatableAnnotationTargetMismatch
*RepeatableAnnotationIsDocumented
*RepeatableAnnotationIsInherited
*RepeatableAnnotationWithRepeatingContainerAnnotation
*VarLocalMultipleDeclarators
*VarLocalCannotBeArray
*VarLocalReferencesItself
*VarLocalWithoutInitializer
*VarLocalInitializedToNull
*VarLocalCannotBeArrayInitializers
*VarLocalCannotBeLambda
*VarLocalCannotBeMethodReference
*VarIsReserved
*VarIsReservedInFuture
*VarIsNotAllowedHere
*******************************************************************************/

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/core/compiler/IProblem.java
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  * IBM Corporation - fix for 342598
  * IBM Corporation - Java 8 support
  * het@google.com - Bug 427943 - The method
    org.eclipse.jdt.internal.compiler.apt.model.Factory.getPrimitiveType does not throw IllegalArgumentException

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* Stephan Herrmann - Contributions for
* Bug 186342 - [compiler][null] Using annotations for null checking
* Bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* Bug 331649 - [compiler][null] consider null annotations for fields
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 424728 - [1.8][null] Unexpected error: The nullness annotation 'XXXX' is not applicable at this location
* Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
* Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
* Bug 469584 - ClassCastException in Annotation.detectStandardAnnotation (320)
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409517 - [1.8][compiler] Type annotation problems on more elaborate array references
* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Bug 414384 - [1.8] type annotation on abbreviated inner class is not marked as inner type
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Bug 412151 - [1.8][compiler] Check repeating annotation's collection type
* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
* Bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*******************************************************************************

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  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredRequiresStatement.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleStatement.java
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  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModuleReference.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredProvidesStatement.java
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  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredUsesStatement.java
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  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredExport.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
* */

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/env/IBinaryField.java
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jar/org/eclipse/jdt/internal/compiler/lookup/ImplicitNullAnnotationVerifier.java
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/* Stephan Herrmann - Contribution for */
/*bug 383368 - [compiler][null] syntactic null analysis for field references */
/*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields */
/*******************************************************************************

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* Stephen Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 317046 - Exception during debugging when hover mouse over a field
* bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
* Bug 424712 - [1.8][compiler] NPE in TypeBinding.isProvablyDistinctTypeArgument
* Bug 426792 - [1.8][inference][impl] generify new type inference engine
* Bug 426764 - [1.8] Presence of conditional expression as method argument confuses compiler
* Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
* Bug 427626 - [1.8] StackOverflow while typing new ArrayList<String>().toArray( and asking for code completion
* Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Bug 435962 - [RC2] StackOverflowError when building
* Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
* Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
* Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/lookup/SortedSimpleNameVector.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/util/SortedCharArrays.java
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*bug 186342 - [compiler][null] Using annotations for null checking  
*bug 365519 - editorial cleanup after bug 186342 and bug 365387  
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.  
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
  Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly
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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
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* Nick Teryaev - fix for bug (https://bugs.eclipse.org/bugs/show_bug.cgi?id=40752)
* Stephan Herrmann - Contributions for
*bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 370639 - [compiler][resource] restore the default for resource leak warnings
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 388966 - [compiler][resource] Incorrect 'potential resource leak'
*bug 379784 - [compiler] "Method can be static" is not getting reported
*bug 379834 - Wrong "method can be static" in presence of qualified super and different staticness of nested super class.
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*bug 381445 - [compiler][resource] Can the resource leak check be made aware of Closeables.closeQuietly?
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*bug 382350 - [1.8][compiler] Unable to invoke inherited default method via l.super.m() syntax
*bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*bug 405569 - Resource leak check false positive when using DbUtils.closeQuietly
*bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
*bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*Bug 426290 - [1.8][compiler] Inference + overloading => wrong method resolution ?
*Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
*Bug 441734 - [1.8][inference] Generic method with nested parameterized type argument fails on method reference
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 456487 - [1.8][null] @NonNull type variant of @NonNull-constrained type parameter causes grief
*Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
*Bug 472618 - [compiler][null] assertNotNull vs. Assert.assertNotNull
*Bug 470958 - [1.8] Unable to convert lambda
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
*Bug 378674 - "The method can be declared as static" is wrong
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409245 - [1.8][compiler] Type annotations dropped when call is routed through a synthetic bridge method

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/MessageSend.java
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*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/flow/ExceptionHandlingFlowContext.java
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*bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
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* * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* * Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/parser/RecoveredModule.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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* Bug 428811 - [1.8][compiler] Type witness unnecessarily required
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 331649 - [compiler][null] consider null annotations for fields
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 447088 - [null] @NonNull on fully qualified field type is ignored
* Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* Bug 458396 - NPE in CodeStream.invoke()
* Bug 446217 - [null] @NonNullByDefault in package-info.java causes bogus "null type safety" warning
* Till Brychcy - Contribution for
* bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
*******************************************************************************/

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/FieldBinding.java
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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 412076 - [compiler] @NonNullByDefault doesn't work for varargs parameter when in generic interface
*Bug 403216 - [1.8][null] TypeReference#captureTypeAnnotations treats type annotations as type argument annotations
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 416175 - [1.8][compiler][null] NPE with a code snippet that used null annotations on wildcards
*Bug 416174 - [1.8][compiler][null] Bogus name clash error with null annotations
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 425278 - [1.8][compiler] Suspect error: The target type of this expression is not a well formed parameterized
type due to bound(s) mismatch
*Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
*Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
*Bug 426792 - [1.8][inferencer][impl] generify new type inference engine
*Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

Bug 438179 - [1.8][null] ‘Contradictory null annotations’ error on type variable with explicit null-annotation.

Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull

Bug 446434 - [1.8][null] Enable interned captures also when analysing null type annotations

Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations

Bug 456508 - Unexpected RHS PolyTypeBinding for: <code-snippet>

Bug 390064 - [compiler][resource] Resource leak warning missing when extending parameterized class

Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version

Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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/*********************/
* Stephan Herrmann - Contributions for
* bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
* bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
* Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction

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* IBM Corporation - initial API and implementation
* Tom Tromey - patch for readTable(String) as described in http://bugs.eclipse.org/bugs/show_bug.cgi?id=32196
* Stephan Herrmann - Contributions for
* bug 366003 - CCE in ASTNode.resolveAnnotations(ASTNode.java:639)
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 393719 - [compiler] inconsistent warnings on iteration variables
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 383973 - [1.8][compiler] syntax recovery in the presence of default methods
* bug 401035 - [1.8] A few tests have started failing recently
* Jesper S Moller - Contributions for
* bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
* bug 399695 - [1.8][compiler] [1.8][compiler] migrate parser to other syntax for default methods
* bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
* bug 393192 - Incomplete type hierarchy with > 10 annotations
* bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Andy Clement - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
* Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
* Bug 415821 - [1.8][compiler] CLASS_EXTENDS target type annotation missing for anonymous classes

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 * Stephan Herrmann - Contributions for
 *bug 292478 - Report potentially null across variable assignment
 *bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
 *bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
 *bug 331649 - [compiler][null] consider null annotations for fields
 *bug 383368 - [compiler][null] syntactic null analysis for field references
 *bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
 *bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
 *bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
 *Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
 *Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
 *Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
 *Bug 426792 - [1.8][inference][impl] generify new type inference engine
 *Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
 *Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
 *Bug 428274 - [1.8] [compiler] Cannot cast from Number to double
 *Bug 428352 - [1.8][compiler] Resolution errors don't always surface
 *Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
 * Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
 * Bug 473178
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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 349326 - [1.7] new warning for missing try-with-resources
*bbug 186342 - [compiler][null] Using annotations for null checking
*bbug 370639 - [compiler][resource] restore the default for resource leak warnings
*bbug 366063 - Compiler should not add synthetic @NonNull annotations
*bbug 374605 - Unreasonable warning for enum-based switch statements
*bbug 388281 - [compiler][null] inheritance of null annotations as an option
*bbug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*bbug 383368 - [compiler][null] syntactic null analysis for field references
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object),
Collection#remove(Object) et al.
* Jesper Steen Moller - Contributions for
*bbug 404146 - [1.7][compiler] nested try-catch-finally-blocks leads to unrunnable Java byte code
*bbug 407297 - [1.8][compiler] Control generation of parameter names by option
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  * bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
  * bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
  * bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
  * Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch

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  * bug 331649 - [compiler][null] consider null annotations for fields
  * Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
  * Bug 458396 - NPE in CodeStream.invoke()

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* IBM Corporation - fix for 342598
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*bug 328281 - visibility leaks not detected when analyzing unused field in private class
*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365836 - [compiler][null] Incomplete propagation of null defaults.
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 36662 - [compiler][null] warn on contradictory and redundant null annotations
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 366063 - Compiler should not add synthetic @NonNull annotations
*bug 384663 - Package Based Annotation Compilation Error in JDT 3.8/4.2 (works in 3.7.2)
*bug 386356 - Type mismatch error with annotations and generics
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 380896 - [compiler][null] Enum constants not recognised as beingNonNull.
*bug 391376 - [1.8] check interaction of default methods with bridge methods and generics
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 416172 - [1.8][compiler][null] null type annotation not evaluated on method return type
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 426048 - [1.8] NPE in TypeVariableBinding.internalBoundCheck when parentheses are not balanced
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect ”throws E”
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 457210 - [1.8][compiler][null] Wrong Nullness errors given on full build build but not on incremental build?
*Bug 461250 - ArrayIndexOutOfBoundsException in SourceTypeBinding.fields
*Bug 466713 - Null Annotations: NullPointerException using <int Nullable []> as Type Param
  * Jesper S Moller <jesper@selskabet.org> - Contributions for
*Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
  * Till Brychcy - Contributions for
*  * bug 415269 - NonNullByDefault is not always inherited to nested classes
*  * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*  * Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
*  * Sebastian Zarnekow - Contributions for
*bug 544921 - [performance] Poor performance with large source files
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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*bug 328281 - visibility leaks not detected when analyzing unused field in private class
*bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.

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* David Foerster - patch for toUpperCase as described in https://bugs.eclipse.org/bugs/show_bug.cgi?id=153125

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* Bug 383368 - [compiler][null] syntactic null analysis for field references
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
* Bug 435570 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
* Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Andy Clement - Contributions for
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* Jesper S Moller - Contributions for

*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expressions
* Bug 384687 - [1.8] Wildcard type arguments should be rejected for lambda and reference expressions
*Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)
* Stephan Herrmann - Contribution for

*bug 402028 - [1.8][compiler] null analysis for reference expressions
*bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super via I.super.m() syntax
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*Bug 427196 - [1.8][compiler] Compiler error for method reference to overloaded method

*Bug 428264 - [1.8] method reference of generic class causes problems (wrong inference result or NPE)
*Bug 392238 - [1.8][null] @NonNullByDefault illegally tries to affect "throws E"
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

*Bug 448709 - [1.8][null] ensure we don't infer types that violate null constraints on a type parameter's bound
*Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param

**Bug 470542 - NullPointerException in ReferenceExpression.isPotentiallyCompatibleWith (962)

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contribution for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/ast/MemberValuePair.java

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 * Stephan Herrmann - Contributions for
 *bug 349326 - [1.7] new warning for missing try-with-resources
 *bug 186342 - [compiler][null] Using annotations for null checking
 *bug 364890 - BinaryTypeBinding should use char constants from Util
 *bug 365387 - [compiler][null] bug 186342: Issues to follow up post review and verification.
 *bug 358903 - Filter practically unimportant resource leak warnings
 *bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
******************************************************************************/
Bug 388800 - [1.8][compiler] detect default methods in class files
bug 388281 - [compiler][null] inheritance of null annotations as an option
bug 331649 - [compiler][null] consider null annotations for fields
bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
Bug 453475 - [1.8][null] Contradictory null annotations (4.5 M3 edition)
Bug 454182 - Internal compiler error when using 1.8 compliance for simple project
Bug 470467 - [null] Nullness of special Enum methods not detected from .class file
Bug 447661 - [1.8][null] Incorrect ‘expression needs unchecked conversion’ warning
* Jesper Steen Moller - Contributions for
* Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing
* Bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
* Sebastian Zarnekow - Contributions for
* Bug 544921 - [performance] Poor performance with large source files
* Alexander Lehmann - Contributions for
* Bug 566258 - Intermittent NPE in APT RoundDispatcher
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/BinaryTypeBinding.java
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/env/IBinaryNestedType.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/env/IGenericMethod.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/env/ISourceMethod.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/env/IGenericType.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2.jar/org/eclipse/jdt/internal/compiler/env/IGenericField.java

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* Jesper S Moller - Contributions for  
* Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335  
* Bug 406982 - [1.8][compiler] Generation of MethodParameters Attribute in classfile  
* Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)  
* Bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container  
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for  
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)  
* Bug 409236 - [1.8][compiler] Type annotations on intersection cast types dropped by code generator  
* Bug 409246 - [1.8][compiler] Type annotations on catch parameters not handled properly  
* Bug 415541 - [1.8][compiler] Type annotations in the body of static initializer get dropped  
* Bug 415399 - [1.8][compiler] Type annotations on constructor results dropped by the code generator  
* Bug 415470 - [1.8][compiler] Type annotations on class declaration go vanishing  
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas  
* Bug 434556 - Broken class file generated for incorrect annotation usage  
* Bug 442416 - $deserializeLambda$ missing cases for nested lambdas  
* Stephan Herrmann - Contribution for  
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*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
* Olivier Tardieu tardieu@us.ibm.com - Contributions for
*Bug 442416 - $deserializeLambda$ missing cases for nested lambdas

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*bug 186342 - [compiler][null] Using annotations for null checking
*bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
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* bug 319201 - [null] no warning when unboxing SimpleNameReference causes NPE

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* bug 349326 - [1.7] new warning for missing try-with-resources
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
  jar/org/eclipse/jdt/internal/compiler/ast/WhileStatement.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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* Lars Vogel <Lars.Vogel@vogella.com> - Contributions for
* Bug 473178
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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 358903 - Filter practically unimportant resource leak warnings
*bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 400421 - [compiler] Null analysis for fields does not take @com.google.inject.Inject.Inject into account
*bug 382069 - [null] Make the null analysis consider JUnit's assertNotNull similarly to assertions
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 426792 - [1.8][implementation] generify new type inference engine
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 427199 - [1.8][resource] avoid resource leak warnings on Streams that have no resource
*Bug 418473 - [1.8][null] contradictory annotations on invocation of generic method not reported
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 431581 - Eclipse compiles what it should not
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
*Bug 444642 - [1.8] merge null annotations from super methods
*Bug 456532 - [1.8][null] ReferenceBinding.appendNullAnnotation() includes phantom annotations in error messages
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.
* Jesper S Moller - Contributions for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields
* Pierre-Yves B. <pyvesdev@gmail.com> - Contribution for
* bug 542520 - [JUnit 5] Warning The method xxx from the type X is never used locally is shown when using MethodSource
* Sebastian Zarnekow - Contributions for
*bug 544921 - [performance] Poor performance with large source files

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  jar/org/eclipse/jdt/internal/compiler/ast/DoubleLiteral.java
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  jar/org/eclipse/jdt/internal/compiler/ast/NumberLiteral.java
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evice/listeners/ICastManager.java
*/opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/InferenceContext.java
*/opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/FloatLiteralMinValue.java
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* Jesper S Moller - Contributions for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*Bug 416885 - [1.8][compiler] IncompatibleClassChange error (edit)
* Stephan Herrmann - Contribution for
*bug 401030 - [1.8][null] Null analysis support for lambda methods.

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Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
Bug 425798 - [1.8][compiler] Another NPE in ConstraintTypeFormula.reduceSubType
Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
Bug 426563 - [1.8] AIOOBE when method with error invoked with lambda expression as argument
Bug 420525 - [1.8] [compiler] Incorrect error "The type Integer does not define sum(Object, Object) that is applicable here"
Bug 427438 - [1.8][compiler] NPE at org.eclipse.jdt.internal.compiler.ast.LambdaExpression.java
Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
Bug 428786 - [1.8][compiler] Inference needs to compute the "ground target type" when reducing a lambda compatibility constraint
Bug 428980 - [1.8][null] simple expression as lambda body doesn't leverage null annotation on argument
Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
Bug 432110 - [1.8][compiler] nested lambda type incorrectly inferred vs javac
Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression
Bug 453483 - [compiler][null][loop] Improve null analysis for loops
Bug 455723 - Nonnull argument not correctly inferred in loop
Bug 463728 - [1.8][compiler][inference] Ternary operator in lambda derives wrong type
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
  Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas

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* Bug 359334 - Analysis for resource leak warnings does not consider exceptions as method exit points
* Bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* Bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
* Bug 429430 - [1.8] Lambdas and method reference infer wrong exception type with generics (RuntimeException instead of IOException)
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* Luiz-Otavio Zorzella <zorzella at gmail dot com> - Improve CamelCase algorithm*
* Gábor Kövesdán - Contribution for Bug 350000 - [content assist] Include non-prefix matches in auto-complete suggestions*
* Stefan Xenos <sxenos@gmail.com> (Google) - Bug 501283 - Lots of hash collisions during indexing*
***********************************************************************

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* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
* bug 185682 - Increment/decrement operators mark local variables as read
* bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
* bug 331649 - [compiler][null] consider null annotations for fields
* bug 383368 - [compiler][null] syntactic null analysis for field references
* bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
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* * wharley@bea.com - derived base class from BatchMessagerImpl
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* Stephan Herrmann - Contributions for
* *bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
* *bug 370639 - [compiler][resource] restore the default for resource leak warnings
* *bug 388996 - [compiler][resource] Incorrect 'potential resource leak'
* *Bug 417758 - [1.8][null] Null safety compromise during array creation.
* *Bug 427438 - [1.8][compiler] NPE at
* *Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
* * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 383624 - [1.8][compiler] Revive code generation support for type annotations (from Olivier's work)
*******************************************************************************
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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415397 - [1.8][compiler] Type Annotations on wildcard type argument dropped
* Stephan Herrmann - Contribution for
* *Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
* *Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
* *Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
* *Bug 440462 - [null][compiler]NPE in EJC for erroneous null annotations
* *Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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*Bug 452788 - [1.8][compiler] Type not correctly inferred in lambda expression

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*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables

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*Bug 186342 - [compiler][null] Using annotations for null checking
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for Bug 407191 - [1.8] Binary access support for type annotations

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
* Jesper S Moller - Contributions for
*bug 382721 - [1.8][compiler] Effectively final variables needs special treatment

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*bug 292478 - Report potentially null across variable assignment,
*bug 185682 - Increment/decrement operators mark local variables as read
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 383368 - [compiler][null] syntactic null analysis for field references
*Bug 412203 - [compiler] Internal compiler error: java.lang.IllegalArgumentException: info cannot be null
*Bug 458396 - NPE in CodeStream.invoke()
*Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null
* Jesper S Moller <jesper@selskabet.org> - Contributions for
* bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*bug 378674 - "The method can be declared as static" is wrong
*bug 404657 - [1.8][compiler] Analysis for effectively final variables fails to consider loops
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
*******************************************************************************

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Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
Bug 446442 - [1.8] merge null annotations from super methods
Bug 457079 - Regression: type inference
********************************************************************************

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Bug 434602 - Possible error with inferred null annotations leading to contradictory null annotations
Bug 456497 - [1.8][null] during inference nullness from target type is lost against weaker hint from applicability analysis
Bug 456487 - [1.8][null] @Nullable type variant of @NonNull-constrained type parameter causes grief
* Till Brychcy - Contribution for
Bug 473713 - [1.8][null] Type mismatch: cannot convert from @NonNull A1 to @NonNull A1
*******************************************************************************
/* Cache the derived type, tagging it as a derivative of both the key type and the naked type.
E.g: int @NonNull [] would be tagged as a derived type of both int and int []. This is not
needed for correctness, but for annotated object reuse. We provide two alternate ways to
annotate a type:

Taking parameterized types as an example, a call to getParameterizedType can be made with annotations
to create @NonNull List<@NonNull String> in one stroke. Or a parameterized type can be created first
and then annotated via getAnnotatedType. In the former case, the tables get looked up with List as
the key, in the latter with List<String> as the key.

Binary vs source, substitutions, annotation re-assignment from SE7 locations etc trigger these
alternate code paths. Unless care is exercised, we will end up with duplicate objects (that share
the same TypeBinding.id => correctness is not an issue, but memory wastage is)
*/

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/SourceTypeCollisionException.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/util/Messages.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/batch/FileFinder.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/parser/RecoveredInitializer.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/problem/ProblemSeverities.java

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* IBM Corporation - fix for 342470
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*  Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
*  bug 319201 - [null] no warning when unboxing SingleNameReference causes NPE
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* Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
* Bug 453483 - [compiler][null][loop] Improve null analysis for loops
* Bug 407414 - [compiler][null] Incorrect warning on a primitive type being null

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*bug 331649 - [compiler]null] consider null annotations for fields
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 426996 - [1.8][inference] try to avoid method Expression.unresolve()?
* Jesper S Moller - Contributions for
*bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
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* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 295551 - Add option to automatically promote all warnings to errors
* bug 359721 - [options] add command line option for new warning token "resource"
* bug 365208 - [compiler][batch] command line options for annotation based null analysis
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 375366 - ECJ ignores unusedParameterIncludeDocCommentReference unless enableJavadoc option is set
* bug 388281 - [compiler][null] inheritance of null annotations as an option
* bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
* Bug 440477 - [null] Infrastructure for feeding external annotations into compilation
* Bug 440687 - [compiler][batch][null] improve command line option for external annotations
* Bug 408815 - [batch][null] Add CLI option for COMPILER_PB_SYNTACTIC_NULL_ANALYSIS_FOR_FIELDS
* Jesper S Moller - Contributions for
* bug 407297 - [1.8][compiler] Control generation of parameter names by option
* Mat Booth - Contribution for bug 405176
* Frits Jalvingh - fix for bug 533830.
*******************************************************************************

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*bug 349326 - [1.7] new warning for missing try-with-resources
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
*bug 383368 - [compiler][null] syntactic null analysis for field references
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 416176 - [1.8][compiler][null] null type annotations cause grief on type variables
*Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
* Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 378674 - "The method can be declared as static" is wrong
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*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
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*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 425152 - [1.8] [compiler] Lambda Expression not resolved but flow analyzed leading to NPE.
*Bug 423505 - [1.8] Implement "18.5.4 More Specific Method Inference"
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
*Bug 438012 - [1.8][null] Bogus Warning: The nullness annotation is redundant with a default that applies to this location
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 443347 - [1.8][null] @NonNullByDefault should not affect constructor arguments of an anonymous instantiation
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 466713 - Null Annotations: NullPointerException using <int @Nullable []> as Type Param
*Bug 456584 - [1.8][null] Bogus warning for return type variable's @NonNull annotation being 'redundant'
*Bug 471611 - Error on hover on call to generic method with null annotation
* Jesper Steen Moller - Contributions for
*Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*Bug 426542 - [1.8] Most specific method not picked when one method has intersection type as type parameter
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 405104 - [1.8][compiler][codegen] Implement support for serializeable lambdas
* Jesper S Møller - Contributions for bug 381345 : [1.8] Take care of the Java 8 major version
* Bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/MethodBinding.java
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*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred checking
*Bug 422796 - [compiler][null] boxed boolean reported as potentially null after null test in lazy disjunction
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* bug 292478 - Report potentially null across variable assignment
* bug 332637 - Dead Code detection removing code that isn't dead
*bug 394768 - [compiler][resource] Incorrect resource leak warning when creating stream in conditional
*Bug 411964 - [1.8][null] leverage null type annotation in foreach statement
*Bug 421035 - [resource] False alarm of resource leak warning when casting a closeable in its assignment
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  * Bug 407297: [1.8][compiler] Control generation of parameter names by option

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* Karen Moore - fix for https://bugs.eclipse.org/bugs/show_bug.cgi?id=207411
* Stephan Herrmann <stephan@cs.tu-berlin.de> - Contributions for
  * bug 185682 - Increment/decrement operators mark local variables as read
  * bug 186342 - [compiler][null] Using annotations for null checking
*bug 365519 - editorial cleanup after bug 186342 and bug 365387
*bug 374605 - Unreasonable warning for enum-based switch statements
*bug 384870 - [compiler] @Deprecated annotation not detected if preceded by other annotation
*bug 393719 - [compiler] inconsistent warnings on iteration variables
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424742 - [1.8] NPE in LambdaExpression.isCompatibleWith
*Bug 424710 - [1.8][compiler] CCE in SimpleNameReference.localVariableBinding
*Bug 424205 - [1.8] Cannot infer type for diamond type with lambda on method invocation
*Bug 424415 - [1.8][compiler] Eventual resolution of ReferenceExpression is not seen to be happening.
*Bug 426366 - [1.8][compiler] Type inference doesn't handle multiple candidate target types in outer overload context
*Bug 427282 - [1.8][compiler] AIOOB (-1) at
*Bug 427483 - [Java 8] Variables in lambdas sometimes can't be resolved
*Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*Bug 427163 - [1.8][null] Bogus error “Contradictory null specification” on varags
*Bug 432348 - [1.8] Internal compiler error (NPE) after upgrade to 1.8
*Bug 440143 - [1.8][null] one more case of contradictory null annotations regarding type variables
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
*Bug 434483 - [1.8][compiler][inference] Type inference not picked up with method reference
*Bug 446442 - [1.8] merge null annotations from super methods
*Bug 437072 - [compiler][null] Null analysis emits possibly incorrect warning for new int[][] despite @NonNullByDefault
*Jesper S Moller - Contributions for
*bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*bug 412149 - [1.8][compiler] Emit repeated annotations into the designated container
*bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*Till Brychcy - Contributions for
*bug 467094 - [1.8][null] TYPE_USE NullAnnotations of array contents are applied to field.
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*Stephan Herrmann - Contributions for
*bug 358827 - [1.7] exception analysis for t-w-r spoils null analysis
*bug 186342 - [compiler][null] Using annotations for null checking
*bug 368546 - [compiler][resource] Avoid remaining false positives found when compiling the Eclipse SDK
*bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
*bug 383368 - [compiler][null] syntactic null analysis for field references
*bug 402993 - [null] Follow up of bug 401088: Missing warning about redundant null check
*bug 403086 - [compiler][null] include the effect of 'assert' in syntactic null analysis for fields
*bug 403147 - [compiler][null] FUP of bug 400761: consolidate interaction between unboxing, NPE, and deferred
checking
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 455723 - Nonnull argument not correctly inferred in loop
*Bug 415790 - [compiler][resource] Incorrect potential resource leak warning in for loop with close in try/catch
*Bug 446691 - [1.8][null][compiler] NullPointerException in SingleNameReference.analyseCode
*******************************************************************************/

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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*   Stephan Herrmann - Contribution for
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 429958 - [1.8][null] evaluate new DefaultLocation attribute of @NonNullByDefault
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Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/ast/SingleTypeReference.java
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*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099

* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 415543 - [1.8][compiler] Incorrect bound index in RuntimeInvisibleTypeAnnotations attribute

*******************************************************************************************

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/TypeParameter.java
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* Bug 440474 - [null] textual encoding of external null annotations
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/antadapter/messages.properties
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/problem/messages.properties
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* Stephan Herrmann - Contribution for
*bug 395002 - Self bound generic class doesn't resolve bounds properly for wildcards for certain parametrisation.
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*Bug 429403 - [1.8][null] null mismatch from type arguments is not reported at field initializer
*Bug 453483 - [compiler][null][loop] Improve null analysis for loops
*Bug 458396 - NPE in CodeStream.invoke()
* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*Bug 409250 - [1.8][compiler] Various loose ends in 308 code generation
******************************************************************************

Found in path(s):
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/FieldDeclaration.java
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/ast/ProvidesStatement.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/env/IModuleAwareNameEnvironment.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/env/IMultiModuleEntry.java
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*bug 345305 - [compiler][null] Compiler misidentifies a case of "variable can only be null"
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/flow/SwitchFlowContext.java
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*   Jesper S Moller - Contributions for
*   * bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*   * Bug 405066 - [1.8][compiler][codegen] Implement code generation infrastructure for JSR335
*     * Stephan Herrmann - Contribution for
*   * Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*   * Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*   * Bug 425142 - [1.8][compiler] NPE in ConstraintTypeFormula.reduceSubType
*   * Bug 425153 - [1.8] Having wildcard allows incompatible types in a lambda expression
*   * Bug 425156 - [1.8] Lambda as an argument is flagged with incompatible error
*   * Bug 424403 - [1.8][compiler] Generic method call with method reference argument fails to resolve properly.
*   * Bug 427438 - [1.8][compiler] NPE at
*     * org.eclipse.jdt.internal.compiler.ast.ConditionalExpression.generateCode(ConditionalExpression.java:280)
*   * Bug 428352 - [1.8][compiler] Resolution errors don't always surface
*   * Bug 446442 - [1.8] merge null annotations from super methods
*     * Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
*     * Bug 405104 - [1.8][compiler][codegen] Implement support for serializable lambdas
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* Walter Harley - initial API and implementation
* IBM Corporation - fix for 342598, 382590
* Jean-Marie Henaff <jmhenaff@google.com> (Google) - Bug 481555
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* Nikolay Metchev (nikolaymetchev@gmail.com) - Contributions for
* bug 411098 - [compiler][resource] Invalid Resource Leak Warning using ternary operator inside try-with-resource
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* IBM Corporation - Fix for bug 328575
* het@google.com - Bug 415274 - Annotation processing throws a NPE in getElementsAnnotatedWith()
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Concerns:

* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/apt/dispatch/RoundEnvImpl.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/util/CtSym.java

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Contributors:

* Andrey Loskutov <loskutov@gmx.de> - initial API and implementation

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Contributors:

* IBM Corporation - initial API and implementation
* Benjamin Muskalla - Contribution for bug 239066
* Stephan Herrmann - Contributions for
* bug 236385 - [compiler] Warn for potential programming problem if an object is created but not used
* bug 338303 - Warning about Redundant assignment conflicts with definite assignment
* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 186342 - [compiler][null] Using annotations for null checking
* bug 365519 - editorial cleanup after bug 186342 and bug 365387
* bug 365662 - [compiler][null] warn on contradictory and redundant null annotations
* bug 365531 - [compiler][null] investigate alternative strategy for internally encoding nullness defaults
* bug 365859 - [compiler][null] distinguish warnings based on flow analysis vs. null annotations
* bug 374605 - Unreasonable warning for enum-based switch statements
* bug 382353 - [1.8][compiler] Implementation property modifiers should be accepted on default methods.
* bug 382347 - [1.8][compiler] Compiler accepts incorrect default method inheritance
*bug 388281 - [compiler][null] inheritance of null annotations as an option
*bug 376053 - [compiler][resource] Strange potential resource leak problems
*bug 381443 - [compiler][null] Allow parameter widening from @NonNull to unannotated
*bug 393719 - [compiler] inconsistent warnings on iteration variables
*bug 392862 - [1.8][compiler][null] Evaluate null annotations on array types
*bug 388739 - [1.8][compiler] consider default methods when detecting whether a class needs to be declared abstract
*bug 331649 - [compiler][null] consider null annotations for fields
*bug 382789 - [compiler][null] warn when syntactically-nonnul expression is compared against null
*bug 376590 - Private fields with @Inject are ignored by unused field validation
*bug 400761 - [compiler][null] null may be return as boolean without a diagnostic
*bug 402028 - [1.8][compiler] null analysis for reference expressions
*bug 401796 - [1.8][compiler] don't treat default methods as overriding an independent inherited abstract method
*bug 404649 - [1.8][compiler] detect illegal reference to indirect or redundant super
*bug 392384 - [1.8][compiler][null] Restore nullness info from type annotations in class files
*Bug 392099 - [1.8][compiler][null] Apply null annotation on types for null analysis
*Bug 415043 - [1.8][null] Follow-up re null type annotations after bug 392099
*Bug 415291 - [1.8][null] differentiate type incompatibilities due to null annotations
*Bug 415850 - [1.8] Ensure RunJDTCoreTests can cope with null annotations enabled
*Bug 414380 - [compiler][internal] QualifiedNameReference#indexOfFirstFieldBinding does not point to the first field
*Bug 392238 - [1.8][compiler][null] Detect semantically invalid null type annotations
*Bug 416307 - [1.8][compiler][null] subclass with type parameter substitution confuses null checking
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 424637 - [1.8][compiler][null] AIOOB in ReferenceExpression.resolveType with a method reference to Files::walk
*Bug 428294 - [1.8][compiler] Type mismatch: cannot convert from List<Object> to Collection<Object[]>
*Bug 428366 - [1.8] [compiler] The method valueAt(ObservableList<Object>, int) is ambiguous for the type Bindings
*Bug 416190 - [1.8][null] detect incompatible overrides due to null type annotations
*Bug 392245 - [1.8][compiler][null] Define whether / how @NonNullByDefault applies to TYPE_USE locations
*Bug 390889 - [1.8][compiler] Evaluate options to support 1.7- projects against 1.8 JRE.
*Bug 430150 - [1.8][null] stricter checking against type variables
*Bug 434600 - Incorrect null analysis error reporting on type parameters
*Bug 439516 - [1.8][null] NonNullByDefault wrongly applied to implicit type bound of binary type
*Bug 438467 - [compiler][null] Better error position for "The method _ cannot implement the corresponding method _ due to incompatible nullness constraints"
*Bug 439298 - [null] "Missing code implementation in the compiler" when using @NonNullByDefault in package-info.java
*Bug 435805 - [1.8][compiler][null] Java 8 compiler does not recognize declaration style null annotations
*Bug 446442 - [1.8] merge null annotations from super methods
*Bug 455723 - Nonnull argument not correctly inferred in loop
*Bug 458361 - [1.8][null] reconciler throws NPE in ProblemReporter.illegalReturnRedefinition()
*Bug 459967 - [null] compiler should know about nullness of special methods like MyEnum.valueOf()
*Bug 461878 - [1.7][1.8][compiler][null] ECJ compiler does not allow to use null annotations on annotations
*Bug 410218 - Optional warning for arguments of "unexpected" types to Map#get(Object), Collection#remove(Object) et al.

* Jesper S Moller <jesper@selskabet.org> - Contributions for
*bug 382701 - [1.8][compiler] Implement semantic analysis of Lambda expressions & Reference expression
*bug 382721 - [1.8][compiler] Effectively final variables needs special treatment
*bug 384567 - [1.5][compiler] Compiler accepts illegal modifiers on package declaration
*bug 412153 - [1.8][compiler] Check validity of annotations which may be repeatable
*bug 412151 - [1.8][compiler] Check repeating annotation's collection type
*bug 419209 - [1.8] Repeating container annotations should be rejected in the presence of annotation it contains
*Bug 429384 - [1.8][null] implement conformance rules for null-annotated lower / upper type bounds
*Bug 416182 - [1.8][compiler][null] Contradictory null annotations not rejected
*bug 527554 - [18.3] Compiler support for JEP 286 Local-Variable Type
* Ulrich Grave <ulrich.grave@gmx.de> - Contributions for
* bug 386692 - Missing "unused" warning on "autowired" fields

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  * Jesper Steen Moller - Bug 412150 [1.8] [compiler] Enable reflected parameter names during annotation processing

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* Andy Clement (GoPivotal, Inc) aclement@gopivotal.com - Contributions for
* Bug 407191 - [1.8] Binary access support for type annotations
*******************************************************************************/

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/classfmt/FieldInfo.java

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* bug 349326 - [1.7] new warning for missing try-with-resources
* bug 359362 - FUP of bug 349326: Resource leak on non-Closeable resource
*bug 358903 - Filter practically unimportant resource leak warnings
*Bug 417295 - [1.8][null] Massage type annotated null analysis to gel well with deep encoded type bindings.
*Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
*Bug 423504 - [1.8] Implement "18.5.3 Functional Interface Parameterization Inference"
*Bug 426676 - [1.8][compiler] Wrong generic method type inferred from lambda expression
*Bug 427411 - [1.8][generics] JDT reports type mismatch when using method that returns generic type
*Bug 428019 - [1.8][compiler] Type inference failure with nested generic invocation.
*Bug 435962 - [RC2] StackOverflowError when building
*Bug 438458 - [1.8][null] clean up handling of null type annotations wrt type variables
*Bug 440759 - [1.8][null] @NonNullByDefault should never affect wildcards and uses of a type variable
*Bug 441693 - [1.8][null] Bogus warning for type argument annotated with @NonNull
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-jar/org/eclipse/jdt/internal/compiler/lookup/WildcardBinding.java

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* Bug 400874 - [1.8][compiler] Inference infrastructure should evolve to meet JLS8 18.x (Part G of JSR335 spec)
* Bug 433478 - [compiler][null] NPE in ReferenceBinding.isCompatibleWith
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/ast/Literal.java
* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
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*Bug 432977* - [1.8][null] Incorrect `type is not visible` compiler error

*Bug 446434* - [1.8][null] Enable interned captures also when analysing null type annotations

******************************************************************************

/* Taking the binding of QTR as an example, there could be different annotatable components, but we come in a
with a single binding, e.g:

```
@T Z;                                      type => Z  annotations => [[@T]]
@T Y.@T Z                                  type => Z  annotations => [[@T][@T]]
@T X.@T Y.@T Z                             type => Z  annotations => [[@T][@T][@T]]
java.lang.@T X.@T Y.@T Z                   type => Z  annotations => [[[][[@T][@T][@T]]]
```
in all these cases the incoming type binding is for Z, but annotations are for different levels. We need to align their
layout for proper attribution.

*/

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* /opt/cola/permits/1349017544_1655880808.0316098/0/ecj-3-26-0-sources-2-
jar/org/eclipse/jdt/internal/compiler/lookup/AnnotatableTypeSystem.java

1.665 libedit 3.1-20170329-1

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1.667 javax-annotation-api 1.2

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* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Publisher.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/FlowAdapters.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Processor.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Subscription.java
* /opt/cola/permits/1135840663_1613613063.73/0/reactive-streams-1-0-3-sources-3-jar/org/reactivestreams/Subscriber.java
1.670 bcel 5

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file (certdata.txt). This file can be found in the mozilla source tree:
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org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
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- web-fragment_4_0.xsd

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* /opt/cola/permits/1257332954_1642801959.04/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/GenerexIterator.java
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* java.sun.security.ssl

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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/tools/rmi/StubGenerator.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/compiler/ast/BinExpr.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/bytecode/BadBytecode.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/bytecode/NestMembersAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/bytecode/TransformBefore.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/bytecode/InstructionPrinter.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/ByteArrayClassPath.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/bytecode/DuplicateMemberException.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/bytecode/ExceptionTable.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5.jar/javassist/tools/reflect/ClassMetaobject.java

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jar/javassist/convert/TransformAccessArrayField.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/ClassPool.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/URLClassPath.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/TypeChecker.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/ast/ArrayInit.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/tools/reflect/Loader.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/TransformFieldAccess.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/MemberCodeGen.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/util/proxy/SerializedProxy.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/InnerClassesAttribute.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/compiler/AccessorMaker.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/Bytecode.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/InnerClassesAttribute.java

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* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/IntegerMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/ArrayMemberValue.java
* /opt/cola/permits/1135880377_1613624050.66/0/javassist-3-24-0-ga-sources-5-
jar/javassist/bytecode/annotation/LongMemberValue.java

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

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1.698 zipp 3.7.0

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hostname -- set the host name or show the host/domain name

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1.702 logstash-input-gelf 3.3.1

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1.703 kerberos 1.18.4-r0

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    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
    lib/libgss/g_rel_buffer.c
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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
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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<one line to give the program’s name and a brief idea of what it does.>
Copyright (C) 19yy <name of author>

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

Gnomovision version 69, Copyright (C) 19xx name of author  
Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the  
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commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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

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

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

That's all there is to it!
/* doio.c  
 */
The "Artistic License"

Preamble

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#
# The use of this database for anything else than Perl development # is strictly forbidden. (Passive distribution with the Perl source # code kit is, of course, allowed.)
#
# This should contain the preferred addresses. Alternate addresses are in
# Porting/checkAUTHORS.pl.
#
# After editing, please run: make test_porting

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1.718 jose4j 0.7.8

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* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/jwk/DecryptionJwkSelector.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/lang/InvalidKeyException.java
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  jar/org/jose4j/base64url/internal/apache/commons/codec/binary/BaseNCodec.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-
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* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/keys/resolvers/HttpsJwksVerificationKeyResolver.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/base64url/SimplePEMEncoder.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/mac/MacUtil.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/jwa/AlgorithmAvailability.java
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* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/jwt/consumer/ErrorCodeValidator.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/jwt/MalformedClaimException.java
* /opt/cola/permits/1224864821_1636156620.99/0/jose4j-0-7-8-sources-jar/org/jose4j/jwt/consumer/AudValidator.java
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1.720 scalap 2.13.2

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1.721 x-tools 0.1.5

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package copyright

import (  "go/ast"  "go/parser"  "go/token"  "io/ioutil"  "os"  "path/filepath"  "regexp"  "strings"
)

func checkCopyright(dir string) ([]string, error) {  var files []string  err := filepath.Walk(dir, func(path string, info os.FileInfo, err error) error {    if err != nil {      return err    }    if info.IsDir() {      return nil    }    files = append(files, filepath.Base(path))  })  return files, err}
// Skip directories like ".git".
if strings.HasPrefix(info.Name(), ".") {
    return filepath.SkipDir
}
return nil
}

needsCopyright, err := checkFile(dir, path)
if err != nil {
    return err
}
if needsCopyright {
    files = append(files, path)
}
return nil
)
return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved. Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    // Don't check testdata files.
    normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
    if strings.Contains(normalized, "/testdata/") {
        return false, nil
    }
    // goyacc is the only file with a different copyright header.
    if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
        return false, nil
    }
    content, err := ioutil.ReadFile(filename)
    if err != nil {
        return false, err
    }
    fset := token.NewFileSet()
    parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
    if err != nil {
        return false, err
    }
    // Don't require headers on generated files.
    if isGenerated(fset, parsed) {
        return false, nil
    }
shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}
return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT.?
`)
func TestLicenses(t *testing.T) {
    // License text differs for older Go versions because staticcheck isn't
    // supported for those versions.
    testenv.NeedsGoPoint(t, 15)

    if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
        t.Skip("generating licenses only works on Unixes")
    }
    tmp, err := ioutil.TempFile("", "")
    if err != nil {
        t.Fatal(err)
    }
    tmp.Close()

    if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
        t.Fatalf("generating licenses failed: %q, %v", out, err)
    }

    got, err := ioutil.ReadFile(tmp.Name())
    if err != nil {
        t.Fatal(err)
    }
    want, err := ioutil.ReadFile("licenses.go")
    if err != nil {
        t.Fatal(err)
    }
    if !bytes.Equal(got, want) {
        t.Error("combined license text needs updating. Run: `go generate ./internal/hooks` from the gopls module.")
    }
}

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//go:generate ./gen-licenses.sh licenses.go
package hooks

const licensesText = `  
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import (
    "os"
    "path/filepath"
)
func TestToolsCopyright(t *testing.T) {
    cwd, err := os.Getwd()
    if err != nil {
        t.Fatal(err)
    }
    tools := filepath.Dir(cwd)
    if !strings.HasSuffix(filepath.Base(tools), "tools") {
        t.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, 
"\n"))
    }
}

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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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- `analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.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`

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* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-jar/org/jline/terminal/impl/jna/freebsd/FreeBsdNativePty.java

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* /opt/cola/permits/1258291910_1643053091.75/0/jline-terminal-jna-3-14-1-sources-jar/org/jline/terminal/impl/jna/JnaSupportImpl.java
1.740 bindata 2.4.10

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AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

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@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>


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and semantics are as close as possible to those of the Perl 5 language. See
the file Tech.Notes for some information on the internals.

This module is a wrapper that provides a POSIX API to the underlying PCRE
functions.

Written by: Philip Hazel <ph10@cam.ac.uk>

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This version includes the mapping algorithms found in version 1.3 of imagemap.c.

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port to Apache module format, "base_uri" and support for relative URLs

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Added point datatype, using code in NCSA's version 1.8 imagemap.c program, as distributed with version 1.4.1 of their server.
The point code is originally added by Craig Milo Rogers, Rogers@ISI.Edu

Nathan Kurz, nate@tripod.com
Rewrite/reorganization. New handling of default, base and relative URLs.
New Configuration directives:
  ImapMenu {none, formatted, semiformatted, unformatted}
  ImapDefault {error, nocontent, referer, menu, URL}
  ImapBase {map, referer, URL}

Support for creating non-graphical menu added. (backwards compatible):
  Old:  directive URL [x,y ...]
  New:  directive URL "Menu text" [x,y ...]
       or:  directive URL x.y ... "Menu text"

Map format and menu concept courtesy Joshua Bell, jsbell@acs.ucalgary.ca.

Mark Cox, mark@ukweb.com, Allow relative URLs even when no base specified

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For compliance with Mr Darwin's terms: this has been very significantly modified from the free "file" command.
- all-in-one file for compilation convenience when moving from one version of Apache to the next.
- Memory allocation is done through the Apache API's apr_pool_t structure.
- All functions have had necessary Apache API request or server structures passed to them where necessary to call other Apache API routines. (i.e. usually for logging, files, or memory allocation in itself or a called function.)
- struct magic has been converted from an array to a single-ended linked list because it only grows one record at a time, it's only accessed sequentially, and the Apache API has no equivalent of realloc().
- Functions have been changed to get their parameters from the server configuration instead of globals. (It should be reentrant now but has not been tested in a threaded environment.)
- Places where it used to print results to stdout now saves them in a list where they're used to set the MIME type in the Apache request record.
- Command-line flags have been removed since they will never be used here.
Ian Kluft <ikluft@cisco.com>
Engineering Information Framework
Central Engineering
Cisco Systems, Inc.
San Jose, CA, USA

Initial installation          July/August 1996
Misc bug fixes                May 1997
Submission to Apache Software Foundation    July 1997

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C LALR(1) parser skeleton written by Richard Stallman, by simplifying the original so-called "semantic" parser.

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

---
abstract: 'Build and install Perl modules'
author:
  - 'Ken Williams <kwilliams@cpan.org>,'
  - "Development questions, bug reports, and patches should be sent to the
    Module-Build mailing list at <module-build@perl.org>.'
built_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3

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The End
#!perl

=head1 NAME

copyright.t

=head1 DESCRIPTION

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

=cut
use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) { skip_all( "Not all files are available during cross-compilation" ); }

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so # that tests still pass for people intentionally working on older versions:
if ( $opt eq '--now' ) {
  my $current_year = (gmtime)[5] + 1900;
  is $v_year, $current_year, 'perl -v copyright includes current year';
  is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else {
  is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{
  open my $readme, '<', '../README' or die "Opening README failed: $!";

  # The copyright message is the first paragraph:
  local $/ = ";
  my $copyright_msg = <$readme>;

  my ($year) = $copyright_msg =~ /.*\bd\[4,\]/
    or die "Year not found in README copyright message '$copyright_msg'";

  $year;
}
sub v_year
  # returns the latest copyright year shown in perl -v
  {
    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.*\b\d\{4,\}\b/i
    or die "Copyright statement not found in perl -v output '$output'";

    $year;
  }

1.751 libssh 0.9.3 2ubuntu2.2
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Upstream-Contact: libssh@libssh.org
  Andreas Schneider <asn@cryptomilk.org>
Source: https://git.libssh.org/projects/libssh.git

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Comment:
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Files: include/libssh/auth.h
include/libssh/bignum.h
include/libssh/bind.h
include/libssh/buffer.h
include/libssh/channels.h
include/libssh/crc32.h
include/libssh/cryptio.h
include/libssh/dh.h
include/libssh/ecdh.h
include/libssh/ed25519.h
include/libssh/gssapi.h
include/libssh/kex.h
include/libssh/keys.h
include/libssh/legacy.h
include/libssh/libcrypto.h
include/libssh/libgcrypt.h
include/libssh/libssh.h
include/libssh/libssh.hpp
include/libssh/messages.h
include/libssh/misc.h
include/libssh/packet.h
include/libssh/pcap.h
include/libssh/pki.h
include/libssh/pki_priv.h
include/libssh/poll.h
include/libssh/priv.h
include/libssh/scp.h
include/libssh/server.h
include/libssh/session.h
include/libssh/sftp.h
include/libssh/socket.h
include/libssh/string.h
include/libssh/threads.h
include/libssh/wrapper.h
src/auth1.c
src/base64.c
src/bignum.c
src/bind.c
src/buffer.c
src/client.c
src/connect.c
src/crc32.c
src/ecdh.c
src/error.c
src/gcrypt_missing.c
src/init.c
src/kex.c
src/kex1.c
src/legacy.c
src/libcrypto.c
src/libgcrypt.c
src/log.c
src/messages.c
src/packet.c
src/packet1.c
src/packet.cb.c
src/packet_crypt.c
src/pcap.c
src/pki_container_openssl.c
src/pki_ed25519.c
src/server.c
src/session.c
src/sftpserver.c
src/socket.c
src/string.c
src/threads.c
src/threads/pthread.c
src/wrapper.c
tests/benchmarks/bench_raw.c
tests/benchmarks/bench_sc.p.c
tests/benchmarks/bench_sftp.c
tests/benchmarks/benchmarks.c
tests/benchmarks/benchmarks.h
tests/benchmarks/latency.c
tests/client/torture_algorithms.c
tests/client/torture_auth.c
tests/client/torture_connect.c
tests/client/torture_knownhosts.c
tests/client/torture_session.c
tests/test pcap.c
tests/test_socket.c

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Files: examples/exec.c
      examples/senddata.c
      examples/CMakeLists.txt
      include/libssh/ssh1.h
      include/libssh/ssh2.h
      tests/authentication.c
      tests/benchmarks/bench1.sh
      tests/benchmarks/bench2.sh
      tests/chmodtest.c
      tests/client/torture_proxycommand.c
      tests/client/torture_sftp_dir.c
      tests/client/torture_sftp_read.c
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Files: examples/authentication.c
examples/connect_ssh.c
examples/examples_common.h
examples/knownhosts.c
examples/libssh_scp.c
examples/libsshpp.cpp
examples/libsshpp_noexcept.cpp
examples/proxy.c
examples/sample.c
examples/samplesftp.c
examples/samplesshd-cb.c
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src/external/ed25519.c
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src/external/ge25519_base.data
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Files: tests/pkd/pkd_client.h
tests/pkd/pkd_daemon.c
tests/pkd/pkd_daemon.h
tests/pkd/pkd_hello.c
tests/pkd/pkd_keyutil.c
tests/pkd/pkd_keyutil.h
tests/pkd/pkd_util.c
tests/pkd/pkd_util.h
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Files: src/channels.c
src/channels1.c
src/gzip.c
src/known_hosts.c
src/misc.c
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src/pki.c
src/pki_crypto.c
src/pki_gcrypt.c
src/sftp.c
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Files: include/libssh/agent.h
include/libssh/options.h
src/agent.c
src/callbacks.c
src/config.c
tests/client/torture_forward.c
tests/client/torture_request_env.c
tests/torture.c
tests/torture.h
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 src/scp.c
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Files: src/match.c
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22.2  6912
'openssl/providers/fips/self_test.c',
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`./config/archs/BSD-x86/asm_avx2/crypto/bn/co-586.s`,
`./config/archs/BSD-x86/asm_avx2/crypto/bn/x86-gf2m.s`,
`./config/archs/BSD-x86/asm_avx2/crypto/bn/x86-mont.s`,
`./config/archs/BSD-x86/asm_avx2/crypto/des/crypt586.s`,
`./config/archs/BSD-x86/asm_avx2/crypto/des/des-586.s`,
`./config/archs/BSD-x86/asm_avx2/crypto/md5/md5-586.s`,
`./config/archs/BSD-x86/asm_avx2/providers/legacy.ld`,
`./config/archs/BSD-x86/asm_avx2/providers/fips.ld`
],
'openssl_defines_BSD-x86': [
    'NDEBUG',
    'L_ENDIAN',
    'OPENSSL_BUILDING_OPENSSL',
    'AES_ASM',
    'DES_ASM',
    'ECP_NISTZ256_ASM',
    'FIPS_MODULE',
    'GHASH_ASM',
    'OPENSSL_BN_ASM_GF2m',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_PART_WORDS',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_IA32_SSE2',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'VPAES_ASM',
    'FIPS_MODULE',
],
'openssl_cflags_BSD-x86': [
}
version 1.2.11, January 15th, 2017

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'openssl/crypto/bn/bn_sqrt.c',
'openssl/crypto/bn/bn_word.c',
'openssl/crypto/bn/rsaz_exp.c',
'openssl/crypto/bn/rsaz_exp_x2.c',
'openssl/crypto/buffer/buffer.c',
'openssl/crypto/cmac/cmac.c',
'openssl/crypto/des/des_enc.c',
'openssl/crypto/des/ecb3_enc.c',
'openssl/crypto/des/fcrypt_b.c',
'openssl/crypto/des/set_key.c',
'openssl/crypto/dh/dh_backend.c',
'openssl/crypto/dh/dh_check.c',
'openssl/crypto/dh/dh_gen.c',
'openssl/crypto/dh/dh_group_params.c',
'openssl/crypto/dh/dh_kdf.c',
'openssl/crypto/dh/dh_key.c',
'openssl/crypto/dh/dh_lib.c',
'openssl/crypto/dsa/dsa_backend.c',
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'openssl/crypto/dsa/dsa_key.c',
'openssl/crypto/dsa/dsa_lib.c',
'openssl/crypto/dsa/dsa_ossl.c',
'openssl/crypto/dsa/dsa_sign.c',
'openssl/crypto/dsa/dsa_vrf.c',
'openssl/crypto/ec/curve448/arch_32/f_impl32.c',
'openssl/crypto/ec/curve448/arch_64/f_impl64.c',
'openssl/crypto/ec/curve448/curve448.c',
'openssl/crypto/ec/curve448/curve448_tables.c',
'openssl/crypto/ec/curve448/eddsa.c',
'openssl/crypto/ec/curve448/f_generic.c',
'openssl/crypto/ec/curve448/scalar.c',
'openssl/crypto/ec/curve25519.c',
'openssl/crypto/ec/ec2_oct.c',
'openssl/crypto/ec/ec2_smpl.c',
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'openssl/crypto/ec/ec_kmeth.c',
'openssl/crypto/ec/ec_lib.c',
'openssl/crypto/ec/ec_mult.c',
'openssl/crypto/ec/ec_oct.c',
'openssl/crypto/ec/ecdh_kdf.c',
'openssl/crypto/ec/ecdh_ossl.c',
'openssl/crypto/ec/eddsa_ossl.c',
'openssl/providers/implementations/kdfs/pbkdf2_fips.c',
'openssl/providers/implementations/kdfs/sshkdf.c',
'openssl/providers/implementations/kdfs/sskdf.c',
'openssl/providers/implementations/kdfs/tls1_prf.c',
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'openssl/providers/implementations/kem/rsa_kem.c',
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'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
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'openssl/providers/implementations/macs/hmac_prov.c',
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'openssl/providers/implementations/signature/dsa_sig.c',
'openssl/providers/implementations/signature/eddsa_sig.c',
'openssl/providers/implementations/signature/rsa_sig.c',
'openssl/ssl/s3_cbc.c',
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'openssl/providers/common/der/der_dsa_sig.c',
'openssl/providers/common/der/der_ec_key.c',
'openssl/providers/common/der/der_ec_sig.c',
'openssl/providers/common/der/der_ecx_key.c',
'openssl/providers/common/der/der_rsa_key.c',
'openssl/providers/common/provider_ctx.c',
'openssl/providers/common/provider_err.c',
'openssl/providers/implementations/ciphers/ciphercommon.c',
'openssl/providers/implementations/ciphers/ciphercommon_block.c',
'openssl/providers/implementations/ciphers/ciphercommon_ccm.c',
'openssl/providers/implementations/ciphers/ciphercommon_ccm_hw.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
'openssl/providers/implementations/digests/digestcommon.c',
'openssl/ssl/record/tls_pad.c',
'openssl/providers/fips/fips_entry.c',
openssl_sources_BSD-x86_64: [ 
  './config/archs/BSD-x86_64/asm/crypto/aes/aes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aesni-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aesni-sha1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aesni-sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/bsaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/aes/vpaes-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/tsaz-avx2.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/tsaz-avx512.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/tsaz-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont5.s',
  './config/archs/BSD-x86_64/asm/crypto/camellia/cml1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/chacha/chacha-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/ecp_nistz256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/ec/x25519-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/x86_64cpuid.s',
  './config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/aesni-gcm-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/modes/ghash-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/poly1305/poly1305-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-md5-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/rc4/rc4-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/keccak1600-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/shal-1-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha1-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha256-mb-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha256-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/sha/sha512-x86_64.s',
  './config/archs/BSD-x86_64/asm/crypto/whirlpool/wp-x86_64.s',
  './config/archs/BSD-x86_64/asm/engines/e_padlock-x86_64.s',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_dsa_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ec_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_ecx_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_rsa_gen.c',
  './config/archs/BSD-x86_64/asm/providers/common/der/der_wrap_gen.c',
  './config/archs/BSD-x86_64/asm/crypto/bn/tsaz-avx2.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/tsaz-avx512.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-gf2m.s',
  './config/archs/BSD-x86_64/asm/crypto/bn/x86_64-mont5.s',
  './config/archs/BSD-x86_64/asm/crypto/md5/md5-x86_64.s',
]


`./config/archs/BSD-x86_64/asm/providers/legacy.ld`,
`./config/archs/BSD-x86_64/asm/providers/fips.ld`,

`openssl_defines_BSD-x86_64`: [  
  'NDEBUG',  
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  'OPENSSL_BUILDING_OPENSSL',  
  'AES_ASM',  
  'BSAES_ASM',  
  'ECP_NISTZ256_ASM',  
  'FIPS_MODULE',  
  'GHASH_ASM',  
  'KECCAK1600_ASM',  
  'OPENSSL_BN_ASM_GF2m',  
  'OPENSSL_BN_ASM_MONT',  
  'OPENSSL_BN_ASM_MONT5',  
  'OPENSSL_CPUID_OBJ',  
  'OPENSSL_IA32_SSE2',  
  'SHA1_ASM',  
  'SHA256_ASM',  
  'SHA512_ASM',  
  'VPAES_ASM',  
  'X25519_ASM',  
  'FIPS_MODULE',  
],

`openssl_cflags_BSD-x86_64`: [  
  '-Wa,--noexecstack',  
  '-Wall -O3',  
  '-pthread',  
  '-Wall -O3',  
],

`openssl_ex_libs_BSD-x86_64`: [  
  '-pthread',  
],

`linker_script`: "

`include_dirs`: [  
  '.',  
  './include',  
  './crypto',  
  './crypto/include/internal',  
  './providers/common/include',  
],

defines`: ['<@(openssl_defines_BSD-x86_64)]],

cflags`: ['<@(openssl_cflags_BSD-x86_64)]],

'libraries`: ['<@(openssl_ex_libs_BSD-x86_64)]],
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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions.

THE BASIC LIBRARY FUNCTIONS
-----------------------------

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

University of Cambridge Computing Service,

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# (copied below)
#
#This file is derived from the above dictionary version of Nov 22, 2020
# ------------------------------------------
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possible use to humanity, the best way to achieve this is to make it
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"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
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commands you use may be called something other than `show w' and `show
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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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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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Open Source Used In cnBR Operations Hub 22.2 7000
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Open Source Used In cnBR Operations Hub 22.2 7001
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Open Source Used In cnBR Operations Hub 22.2 7011
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'openssl/providers/implementations/exchange/ecx_exch.c',
'openssl/providers/implementations/exchange/kdf_exch.c',
'openssl/providers/implementations/kdfs/hkdf.c',
'openssl/providers/implementations/kdfs/kbkdf.c',
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'openssl/providers/implementations/kdfs/pbkdf2.c',
'openssl/providers/implementations/kdfs/pbkdf2_fips.c',
'openssl/providers/implementations/kdfs/pkcs12kdf.c',
'openssl/providers/implementations/kdfs/scrypt.c',
'openssl/providers/implementations/kdfs/sshkdf.c',
'openssl/providers/implementations/kdfs/sskdf.c',
'openssl/providers/implementations/kdfs/tls1_prf.c',
'openssl/providers/implementations/kdfs/x942kdf.c',
'openssl/providers/implementations/keymgmt/dh_kmgmt.c',
'openssl/providers/implementations/keymgmt/dsa_kmgmt.c',
'openssl/providers/implementations/keymgmt/ec_kmgmt.c',
'openssl/providers/implementations/keymgmt/ecx_kmgmt.c',
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'openssl/providers/implementations/keymgmt/mac_legacy_kmgmt.c',
'openssl/providers/implementations/keymgmt/rsa_kmgmt.c',
'openssl/providers/implementations/macs/blake2b_mac.c',
'openssl/providers/implementations/macs/blake2s_mac.c',
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'openssl/providers/implementations/macs/gmac_prov.c',
'openssl/providers/implementations/macs/hmac_prov.c',
'openssl/providers/implementations/macs/kmac_prov.c',
'openssl/providers/implementations/macs/poly1305_prov.c',

Open Source Used In cnBR Operations Hub 22.2 7017
'openssl/providers/implementations/ciphers/cipher_desx_hw.c',
'openssl/providers/implementations/ciphers/cipher_idea.c',
'openssl/providers/implementations/ciphers/cipher_idea_hw.c',
'openssl/providers/implementations/ciphers/cipher_rc2.c',
'openssl/providers/implementations/ciphers/cipher_rc2_hw.c',
'openssl/providers/implementations/ciphers/cipher_rc4.c',
'openssl/providers/implementations/ciphers/cipher_rc4_hmac_md5.c',
'openssl/providers/implementations/ciphers/cipher_rc4_hmac_md5_hw.c',
'openssl/providers/implementations/ciphers/cipher_rc4_hw.c',
'openssl/providers/implementations/ciphers/cipher_seed.c',
'openssl/providers/implementations/ciphers/cipher_seed_hw.c',
'openssl/providers/implementations/ciphers/cipher_tdes_common.c',
'openssl/providers/implementations/digests/md4_prov.c',
'openssl/providers/implementations/digests/mdc2_prov.c',
'openssl/providers/implementations/digests/rc2Prov.c',
'openssl/providers/implementations/digests/ripemdProv.c',
'openssl/providers/implementations/kdfs/pbkdf1.c',
'openssl/providers/prov_running.c',
'openssl/providers/legacyprov.c',
]

'openssl_sources_BSD-x86': [
  './config/archs/BSD-x86/asm/crypto/aes/aes-586.s',
  './config/archs/BSD-x86/asm/crypto/aes/aesni-x86.s',
  './config/archs/BSD-x86/asm/crypto/aes/vpaes-x86.s',
  './config/archs/BSD-x86/asm/crypto/bf/bf-586.s',
  './config/archs/BSD-x86/asm/crypto/bn/bn-586.s',
  './config/archs/BSD-x86/asm/crypto/bn/co-586.s',
  './config/archs/BSD-x86/asm/crypto/camellia/cmll-x86.s',
  './config/archs/BSD-x86/asm/crypto/chacha/chacha-x86.s',
  './config/archs/BSD-x86/asm/crypto/des/crypt586.s',
  './config/archs/BSD-x86/asm/crypto/des/des-586.s',
  './config/archs/BSD-x86/asm/crypto/ec/ecp_nistz256-x86.s',
  './config/archs/BSD-x86/asm/crypto/x86cpuid.s',
  './config/archs/BSD-x86/asm/crypto/md5/md5-586.s',
  './config/archs/BSD-x86/asm/crypto/modes/ghash-x86.s',
  './config/archs/BSD-x86/asm/crypto/poly1305/poly1305-x86.s',
  './config/archs/BSD-x86/asm/crypto/rc4/rc4-586.s',
  './config/archs/BSD-x86/asm/crypto/ripemd/ripemd-586.s',
  './config/archs/BSD-x86/asm/crypto/sha/sha1-586.s',
  './config/archs/BSD-x86/asm/crypto/sha/sha256-586.s',
  './config/archs/BSD-x86/asm/crypto/sha/sha512-586.s',
  './config/archs/BSD-x86/asm/crypto/wurth/rw-mmx.s',
  './config/archs/BSD-x86/asm/engines/e_padlock-x86.s',
  './config/archs/BSD-x86/asm/providers/common/der/der_sm2_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_digests_gen.c',
  './config/archs/BSD-x86/asm/providers/common/der/der_dsa_gen.c',
]
`.config/archs/BSD-x86/asm/providers/common/der/der_ec_gen.c`,
`.config/archs/BSD-x86/asm/providers/common/der/der_ecx_gen.c`,
`.config/archs/BSD-x86/asm/providers/common/der/der_rsa_gen.c`,
`.config/archs/BSD-x86/asm/providers/common/der/der_wrap_gen.c`,
`.config/archs/BSD-x86/asm/crypto/bn/bn-586.s`,
`.config/archs/BSD-x86/asm/crypto/bn/co-586.s`,
`.config/archs/BSD-x86/asm/crypto/bn/x86-gf2m.s`,
`.config/archs/BSD-x86/asm/crypto/bn/x86-mont.s`,
`.config/archs/BSD-x86/asm/crypto/des/crypt586.s`,
`.config/archs/BSD-x86/asm/crypto/des/des-586.s`,
`.config/archs/BSD-x86/asm/crypto/md5/md5-586.s`,
`.config/archs/BSD-x86/asm/providers/legacy.ld`,
`.config/archs/BSD-x86/asm/providers/fips.ld`,

`openssl_defines_BSD-x86`: [  
  `NDEBUG`,  
  `L_ENDIAN`,  
  `OPENSSL_BUILDING_OPENSSL`,  
  `AES_ASM`,  
  `CMLL_ASM`,  
  `DES_ASM`,  
  `ECP_NISTZ256_ASM`,  
  `GHASH_ASM`,  
  `MD5_ASM`,  
  `OPENSSL_BN_ASM_GF2m`,  
  `OPENSSL_BN_ASM_MONT`,  
  `OPENSSL_BN_ASM_PART_WORDS`,  
  `OPENSSL_CPUID_OBJ`,  
  `OPENSSL_IA32_SSE2`,  
  `PADLOCK_ASM`,  
  `POLY1305_ASM`,  
  `RMD160_ASM`,  
  `SHA1_ASM`,  
  `SHA256_ASM`,  
  `SHA512_ASM`,  
  `VPAES_ASM`,  
  `WHIRLPOOL_ASM`,  
  `OPENSSL_PIN`,
],

`openssl_cflags_BSD-x86`: [  
  `-Wa,--noexecstack`,  
  `-Wall -O3 -fomit-frame-pointer`,  
  `-pthread`,  
  `-Wall -O3 -fomit-frame-pointer`,
],

`openssl_ex_libs_BSD-x86`: [  
  `-pthread`,
]
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wcwidth.js: JavaScript Porting of Markus Kuhn's wcwidth() Implementation
=======================================================================
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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn][http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c].
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'openssl/crypto/ec/ec_err.c',
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'openssl/crypto/ec/ec_mult.c',
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'openssl/crypto/ec/ec_pmesh.c',
'openssl/crypto/ec/ec_print.c',

Open Source Used In cnBR Operations Hub 22.2 7046
'openssl/crypto/err/err_prn.c',
'openssl/crypto/ess/ess_asn1.c',
'openssl/crypto/ess/ess_err.c',
'openssl/crypto/ess/ess_lib.c',
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'openssl/crypto/evp/ctrl_params_translate.c',
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'openssl/crypto/evp/dh_support.c',
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'openssl/crypto/evp/e_cast.c',
'openssl/crypto/evp/e_chacha20_poly1305.c',
'openssl/crypto/evp/e_des.c',
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'openssl/crypto/evp/e_null.c',
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'openssl/crypto/evp/e_rc5.c',
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'openssl/crypto/evp/e_sm4.c',
'openssl/crypto/evp/e_xcbc_d.c',
'openssl/crypto/evp/ec_ctrl.c',
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'openssl/crypto/ffc/ffc_key_validate.c',
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'openssl/crypto/ffc/ffc_params_generate.c',
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'openssl/crypto/idea/i_cfb64.c',
'openssl/crypto/idea/i_ecb.c',
'openssl/crypto/idea/i_ofb64.c',
'openssl/crypto/idea/i_skey.c',
'openssl/crypto/kdf/kdf_err.c',
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'openssl/crypto/lhash/lhash.c',
'openssl/crypto/asn1_dsa.c',
'openssl/crypto/bsearch.c',
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'openssl/crypto/core_algorithm.c',
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'openssl/crypto/params.c',
'openssl/crypto/params_dup.c',
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'openssl/crypto/self_test_core.c',
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'openssl/crypto/threads_win.c',
'openssl/crypto/trace.c',
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'openssl/crypto/md5/md5_dgst.c',
'openssl/crypto/md5/md5_one.c',
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'openssl/crypto/octsp/osctsp_err.c',
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'openssl/crypto/octsp/osctsp_lib.c',
'openssl/crypto/octsp/osctsp_prn.c',
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'openssl/crypto/pem/pem_info.c',
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'openssl/crypto/pem/pem_oth.c',
'openssl/crypto/pem/pem_pk8.c',
'openssl/crypto/pem/pem_pkey.c',
'openssl/crypto/pem/pem_sign.c',
'openssl/crypto/pem/pem_x509.c',
'openssl/crypto/pem/pem_xaux.c',

Open Source Used In cnBR Operations Hub 22.2 7051
'openssl/crypto/rsa/rsa_backend.c',
'openssl/crypto/rsa/rsa_chk.c',
'openssl/crypto/rsa/rsa_crpt.c',
'openssl/crypto/rsa/rsa_depr.c',
'openssl/crypto/rsa/rsa_err.c',
'openssl/crypto/rsa/rsa_gen.c',
'openssl/crypto/rsa/rsa_lib.c',
'openssl/crypto/rsa/rsa_meth.c',
'openssl/crypto/rsa/rsa_mp.c',
'openssl/crypto/rsa/rsa_mp_names.c',
'openssl/crypto/rsa/rsa_none.c',
'openssl/crypto/rsa/rsa_oaep.c',
'openssl/crypto/rsa/rsa_ossi.c',
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'openssl/crypto/rsa/rsa_pss.c',
'openssl/crypto/rsa/rsa_saos.c',
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'openssl/crypto/sha/sha1_one.c',
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'openssl/crypto/sm2/sm2_key.c',
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'openssl/crypto/sm3/legacy_sm3.c',
'openssl/crypto/sm3/sm3.c',
'openssl/crypto/sm4/sm4.c',
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'openssl/crypto/srp/srp_vfy.c',
'openssl/crypto/store/store_err.c',
'openssl/crypto/store/store_init.c',
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Open Source Used In cnBR Operations Hub 22.2 7053
'openssl/crypto/x509/x_x509.c','
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'openssl/engines/e_capi.c','
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'openssl/engines/e_padlock.c','
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'openssl/providers/nullprov.c','
'openssl/providers/prov_running.c','
'openssl/providers/common/der/der_rsa_sig.c','
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'openssl/providers/common/der/der_sm2_sig.c','
'openssl/providers/common/bio_prov.c','
'openssl/providers/common/capabilities.c','
'openssl/providers/common/digest_to_nid.c','
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'openssl/providers/implementations/ciphers/ciphercommon_ccm_Hw.c',

Open Source Used In cnBR Operations Hub 22.2 7058
'openssl/providers/implementations/ciphers/ciphercommon_gcm.c',
'openssl/providers/implementations/ciphers/ciphercommon_gcm_hw.c',
'openssl/providers/implementations/ciphers/ciphercommon_hw.c',
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'openssl/crypto/bn/rsaz_exp.c',
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'openssl/crypto/des/fcrypt_b.c',
'openssl/crypto/md5/md5_dgst.c',
'openssl/crypto/md5/md5_one.c',
'openssl/crypto/md5/md5_sha1.c',
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'openssl/providers/implementations/ciphers/cipher_blowfish_hw.c',
'openssl/providers/implementations/ciphers/cipher_cast5.c',
'openssl/providers/implementations/ciphers/cipher_cast5_hw.c',
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'openssl/providers/implementations/digests/ripemd Prov.c',
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'./config/archs/BSD-x86_64/asm/crypto/aesni-sha256-x86_64.s',
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'./config/archs/BSD-x86_64/asm/crypto/bsaes-x86_64.s',
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'./config/archs/bsd-x86_64/asm/crypto/bn/x86_64-mont.s',
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'./config/archs/bsd-x86_64/asm/providers/common/der/der_rsa_gen.c',
'./config/archs/bsd-x86_64/asm/providers/common/der/der_wrap_gen.c',
'./config/archs/bsd-x86_64/asm/cryptobn/rsaz-avx2.s',
'./config/archs/bsd-x86_64/asm/cryptobn/rsaz-avx512.s',
'./config/archs/bsd-x86_64/asm/cryptobn/x86_64-gf2m.s',
'./config/archs/bsd-x86_64/asm/cryptobn/x86_64-mont.s',
'./config/archs/bsd-x86_64/asm/cryptobn/x86_64-mont5.s',
'./config/archs/bsd-x86_64/asm/providers/legacy.ld',
'./config/archs/bsd-x86_64/asm/providers/fips.ld',
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'AES_ASM',
'BSAES_ASM',
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'CMLL_ASM',
'ECPP_NISTZ256_ASM',
'GHASH_ASM',
'KECCAK1600_ASM',
'MD5_ASM',
'OPENSSL_BN_ASM_GF2m',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'PADLOCK_ASM',
'POLY1305_ASM',
'SHA1_ASM',
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'./config/archs/BSD-x86_64/no-asm/providers/common/der/der_sm2_gen.c',
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'./config/archs/BSD-x86_64/no-asm/providers/legacy.ld',
'./config/archs/BSD-x86_64/no-asm/providers/fips.ld',
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      'OPENSsl_CPUID_OBJ',  
      'OPENSsl_IA32_SSE2',  
      'PADLOCK_ASM',  
      'POLY1305_ASM',  
      'RMD160_ASM',  
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}
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'FIPS_MODULE',
'GHASH_ASM',
'KECCAK1600_ASM',
'OPENSSL_BN_ASM_GF2m',
'OPENSSL_BN_ASM_MONT',
]
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  Inc, Kenneth MacKay and Emergya (Cloud4all, FP7/2007-2013, grant agreement
  n 289016). Three clause BSD license.

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openssl/providers/legacyprov.c,

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`./config/archs/BSD-x86/asm_avx2/providers/common/der/der_dsa_gen.c`,
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'ECP_NISTZ256_ASM',
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'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_PART_WORDS',
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'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'PADLOCK_ASM',
'POLY1305_ASM',
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'SHA1_ASM',
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'openssl/crypto/rsa/rsa_backend.c',
'openssl/crypto/rsa/rsa_chk.c',
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This library bundles a version of the `fs.realpath` and `fs.realpathSync` methods from Node.js v0.10 under the terms of the Node.js MIT license.

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Open Source Used In cnBR Operations Hub 22.2 7179
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Open Source Used In cnBR Operations Hub 22.2 7181
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Open Source Used In cnBR Operations Hub 22.2 7186
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'openssl/apps/lib/http_server.c',
'openssl/apps/lib/names.c',
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'libraries': ['<@(openssl_ex_libs_BSD-x86_64)]

'sources': ['<@(openssl_cli_srcs_BSD-x86_64)]
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{  
  global:  
    OSSL_provider_init;  
  local: *;  
};

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name: license update
on:
schedule:
  # 00:00:00 every Monday
  # https://crontab.guru/#0_0_*_*_1
  - cron: "0 0 * * 1"
workflow_dispatch:

jobs:
  update_license:
    if: github.repository == 'nodejs/node'
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
        with:
          persist-credentials: false
      - run: "./tools/license-builder.sh"  # Run the license builder tool
      - uses: gr2m/create-or-update-pull-request-action@v1.x  # Create a PR or update the Action's existing PR
    env:
      GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
    with:
      author: Node.js GitHub Bot <github-bot@iojs.org>
      branch: actions/license-builder
      title: "doc: run license-builder"
      body: >
        License is likely out of date. This is an automatically generated PR by
        the `license-builder.yml` GitHub Action, which runs `license-builder.sh`
        and submits a new PR or updates an existing PR.
        commit-message: 'doc: run license-builder'
        labels: meta

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Open Source Used In cnBR Operations Hub 22.2 7213
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'openssl/providers/implementations/macs/gmac_prov.c',
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'openssl/providers/implementations/rands/drbg.c',
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],
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    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/rsaz-avx2.s',
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    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/bn/x86_64-mont5.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/camellia/cmll-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/chacha/chacha-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/ce/cecp_nist256-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/ce/x25519-x86_64.s',
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    './config/archs/BSD-x86_64/asm_avx2/crypto/md5/md5-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/modes/aesni-gcm-x86_64.s',
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    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/keccak1600-x86_64.s',
    './config/archs/BSD-x86_64/asm_avx2/crypto/sha/sha1-md-x86_64.s',
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'GHASH_ASM',
'KECCAK1600_ASM',
'MD5_ASM',
'OPENSSL_BN_ASM_GF2m',
'OPENSSL_BN_ASM_MONT',
'OPENSSL_BN_ASM_MONT5',
'OPENSSL_CPUID_OBJ',
'OPENSSL_IA32_SSE2',
'PADLOCK_ASM',
'POLY1305_ASM',
'SHA1_ASM',
'SHA256_ASM',
'SHA512_ASM',
'VPAES_ASM',
'WHIRLPOOL_ASM',
'X25519_ASM',
'OPENSSL_PIC',
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'-fthread',
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  `-pthread`,
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  `./crypto`,
  `./crypto/include/internal`,
  `./providers/common/include`,
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`sources` : `@/(openssl_sources)`,
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    `openssl/crypto/bn/bn_ctx.c`,
    `openssl/crypto/bn/bn_dh.c`,
    `openssl/crypto/bn/bn_conv.c`,
    `openssl/crypto/bn/bn_ctx.c`,
    `openssl/crypto/bn/bn_dh.c`,
    `openssl/crypto/bn/bn_div.c`,
    `openssl/crypto/bn/bn_exp.c`,
    `openssl/crypto/bn/bn_exp2.c`,
    `openssl/crypto/bn/bn_gcd.c`,
    `openssl/crypto/bn/bn_gf2m.c`,
    `openssl/crypto/bn/bn_intern.c`,
    `openssl/crypto/bn/bn_kron.c`,
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    `openssl/crypto/bn/bn_prime.c`,
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'openssl/crypto/rsa/rsa_sp800_56b_check.c',
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/**
* Base constructor.

<p>
The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
</p>

<p>
Known suffixes is a list of public domain suffixes that can't be used as wild cards for example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
If *.com is in the known suffixes list will not be allowed to match.
</p>

* @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" } */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1089947271_1601369618.24/0/bcpkix-fips-1-0-3-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

---

1.762 Tomcat-i18n-fr 9.0.63

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*/

1.767 json 1.8.6

1.767.1 Available under license:

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/* Portions of the Selector class are derived from Jack Slocum’s DomQuery,
* part of YUI-Ext version 0.40, distributed under the terms of an MIT-style
* license. Please see http://www.yui-ext.com/ for more information. */

Found in path(s):
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8-tar-gz/flori-json-7f4cf8/data/prototype.js

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Found in path(s):
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8-tar-gz/flori-json-7f4cf8/java/src/json/ext/Parser.rl

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

2017-01-13 (1.8.6)
* Be compatible with ancient ruby 1.8 (maybe?)
2015-09-11 (1.8.5)
* Be compatible with ruby 2.4.0
* There were still some mentions of dual GPL licensing in the source, but JSON has just the Ruby license that itself includes an explicit dual-licensing clause that allows covered software to be distributed under the terms of the Simplified BSD License instead for all ruby versions >= 1.9.3. This is however a GPL compatible license according to the Free Software Foundation. I changed these mentions to be consistent with the Ruby license setting in the gemspec files which were already correct now.

-------- (1.8.4) Skipped.
2015-06-01 (1.8.3)
* Fix potential memory leak, thx to nobu.
2015-01-08 (1.8.2)
* Some performance improvements by Vipul A M <vipulnsward@gmail.com>.
* Fix by Jason R. Clark <jclark@newrelic.com> to avoid mutation of JSON.dump_default_options.
* More tests by Michael Mac-Vicar <mmacvicar@gmail.com> and fixing space_before accessor in generator.
* Performance on Jruby improvemed by Ben Browning <bbrownin@redhat.com>.
* Some fixes to be compatible with the new Ruby 2.2 by Zachary Scott <e@zzak.io>
2013-05-13 (1.8.1)
* Remove Rubinius exception since transcoding should be working now.

2013-05-13 (1.8.0)
* Fix https://github.com/flori/json/issues/162 reported by Marc-Andre Lafortune <github_rocks@marc-andre.ca>. Thanks!
* Applied patches by Yui NARUSE <naruse@airemix.jp> to suppress warning with -Wchar-subscripts and better validate UTF-8 strings.
* Applied patch by ginriki@github to remove unnecessary if.
* Add load/dump interface to JSON::GenericObject to make serialize :some_attribute, JSON::GenericObject work in Rails active models for convenient SomeModel#some_attribute.foo.bar access to serialised JSON data.

2013-02-04 (1.7.7)
* Security fix for JSON create_additions default value and JSON::GenericObject. It should not be possible to create additions unless explicitly requested by setting the create_additions argument to true or using the JSON.load/dump interface. If JSON::GenericObject is supposed to be automatically deserialised, this has to be explicitly enabled by setting JSON::GenericObject.json_creatable = true as well.
* Remove useless assert in fbuffer implementation.
* Apply patch attached to https://github.com/flori/json/issues#issue/155 provided by John Shahid <jvshahid@gmail.com>, Thx!
* Add license information to rubygems spec data, reported by Jordi Massaguer Pla <jmassaguerpla@suse.de>.
* Improve documentation, thx to Zachary Scott <zachary@zacharyscott.net>.

2012-11-29 (1.7.6)
* Add GeneratorState#merge alias for JRuby, fix state accessor methods. Thx to jvshahid@github.
* Increase hash likeness of state objects.

2012-08-17 (1.7.5)
* Fix compilation of extension on older rubies.

2012-07-26 (1.7.4)
* Fix compilation problem on AIX, see https://github.com/flori/json/issues/142

2012-05-12 (1.7.3)
* Work around Rubinius encoding issues using iconv for conversion instead.

2012-05-11 (1.7.2)
* Fix some encoding issues, that cause problems for the pure and the extension variant in jruby 1.9 mode.

2012-04-28 (1.7.1)
* Some small fixes for building

2012-04-28 (1.7.0)
* Add JSON::GenericObject for method access to objects transmitted via JSON.

2012-04-27 (1.6.7)
* Fix possible crash when trying to parse nil value.

2012-02-11 (1.6.6)
* Propagate src encoding to values made from it (fixes 1.9 mode converting
everything to ascii-8bit; harmless for 1.8 mode too) (Thomas E. Enebo <tom.enebo@gmail.com>), should fix
* Fix https://github.com/flori/json/issues#issue/117
2012-01-15 (1.6.5)
* Vit Ondruch <v.ondruch@tiscali.cz> reported a bug that shows up when using
optimisation under GCC 4.7. Thx to him, Bohuslav Kabrda <bkabrda@redhat.com> and Yui NARUSE <naruse@airemix.jp> for debugging and
developing a patch fix.
2011-12-24 (1.6.4)
* Patches that improve speed on JRuby contributed by Charles Oliver Nutter
<headius@headius.com>.
* Support object_class/array_class with duck typed hash/array.
2011-12-01 (1.6.3)
* Let JSON.load("") return nil as well to make mysql text columns (default to
") work better for serialization.
2011-11-21 (1.6.2)
* Add support for OpenStruct and BigDecimal.
* Fix bug when parsing nil in quirks_mode.
* Make JSON.dump and JSON.load methods better cooperate with Rails’ serialize
method. Just use: serialize :value, JSON
* Fix bug with time serialization concerning nanoseconds. Thanks for the
patch go to Josh Partlow (jpartlow@github).
* Improve parsing speed for JSON numbers (integers and floats) in a similar way to
what Evan Phoenix <evan@phx.io> suggested in:
https://github.com/flori/json/pull/103
2011-09-18 (1.6.1)
* Using -target 1.5 to force Java bits to compile with 1.5.
2011-09-12 (1.6.0)
* Extract utilities (prettifier and GUI-editor) in its own gem json-utils.
* Split json/add/core into different files for classes to be serialised.
2011-08-31 (1.5.4)
* Fix memory leak when used from multiple JRuby. (Patch by
jfirebaugh@github).
* Apply patch by Eric Wong <nocode@yhbtt.net> that fixes garbage collection problem
reported in https://github.com/flori/json/issues/46.
* Add :quirks_mode option to parser and generator.
* Add support for Rational and Complex number additions via json/add/complex
and json/add/rational requires.
2011-06-20 (1.5.3)
* Alias State#configure method as State#merge to increase duck type synonymy with Hash.
* Add as_json methods in json/add/core, so rails can create its json objects
the new way.
2011-05-11 (1.5.2)
* Apply documentation patch by Cory Monty <cory.monty@gmail.com>.
* Add gemspecs for json and json_pure.
* Fix bug in jruby pretty printing.
* Fix bug in object_class and array_class when inheriting from Hash or Array.  
2011-01-24 (1.5.1)
* Made rake-compiler build a fat binary gem. This should fix issue  
https://github.com/flori/json/issues#issue/54.  
2011-01-22 (1.5.0)
* Included Java source codes for the Jruby extension made by Daniel Luz  
<dev@mernen.com>.
* Output full exception message of deep_const_get to aid debugging.
* Fixed an issue with ruby 1.9 Module#const_defined? method, that was  
reported by Riley Goodside.  
2010-08-09 (1.4.6)
* Fixed oversight reported in http://github.com/flori/json/issues/closed#issue/23,  
always create a new object from the state prototype.
* Made pure and ext api more similar again.  
2010-08-07 (1.4.5)
* Manage data structure nesting depth in state object during generation. This  
should reduce problems with to_json method definitions that only have one  
argument.
* Some fixes in the state objects and additional tests.  
2010-08-06 (1.4.4)
* Fixes crashes described in http://github.com/flori/json/issues/closed#issue/21 and  
http://github.com/flori/json/issues/closed#issue/23  
2010-05-05 (1.4.3)
* Fixed some test assertions, from Ruby r27587 and r27590, patch by nobu.
* Fixed issue http://github.com/flori/json/issues/#issue/20 reported by  
electronicwhisper@github. Thx!  
2010-04-26 (1.4.2)
* Applied patch from naruse Yui NARUSE <naruse@airemix.com> to make building with  
Microsoft Visual C possible again.
* Applied patch from devrandom <c1.github@niftybox.net> in order to allow building of  
json_pure if extension_task is not present.
* Thanks to Dustin Schneider <dustin@stocktwits.com>, who reported a memory  
leak, which is fixed in this release.
* Applied 993f261ccbf911d2ae57e9db48ec7ac0187283 patch from josh@github.  
2010-04-25 (1.4.1)
* Fix for a bug reported by Dan DeLeo <dan@kallistec.com>, caused by T_FIXNUM  
being different on 32bit/64bit architectures.  
2010-04-23 (1.4.0)
* Major speed improvements and building with simplified  
directory/file-structure.
* Extension should at least be compatable with MRI, YARV and Rubinius.  
2010-04-07 (1.2.4)
* Triger const_missing callback to make Rails' dynamic class loading work.  
2010-03-11 (1.2.3)
* Added a State#[] method which returns an attribute's value in order to  
  increase duck type compatibility to Hash.  
2010-02-27 (1.2.2)
* Made some changes to make the building of the parser/generator compatible to Rubinius.

2009-11-25 (1.2.1)
* Added :symbolize_names option to Parser, which returns symbols instead of strings in object names/keys.

2009-10-01 (1.2.0)
* fast_generate now raises an exception for nan and infinite floats.
* On Ruby 1.8 json supports parsing of UTF-8, UTF-16BE, UTF-16LE, UTF-32BE, and UTF-32LE JSON documents now. Under Ruby 1.9 the M17n conversion functions are used to convert from all supported encodings. ASCII-8BIT encoded strings are handled like all strings under Ruby 1.8 were.
* Better documentation

2009-08-23 (1.1.9)
* Added forgotten main doc file extra_rdoc_files.

2009-08-23 (1.1.8)
* Applied a patch by OZAWA Sakuro <sakuro@2238club.org> to make json/pure work in environments that don't provide iconv.
* Finally got around to avoid the rather paranoid escaping of /? characters in the generator's output. The parsers aren't affected by this change.
Thanks to Rich Apodaca <rapodaca@metamolecular.com> for the suggestion.

2009-06-29 (1.1.7)
* Security Fix for JSON::Pure::Parser. A specially designed string could cause catastrophic backtracking in one of the parser's regular expressions in earlier 1.1.x versions. JSON::Ext::Parser isn't affected by this issue.
Thanks to Bartosz Blimke <bartosz@new-bamboo.co.uk> for reporting this problem.
* This release also uses a less strict ruby version requirement for the creation of the mswin32 native gem.

2009-05-10 (1.1.6)
* No changes. tested native linux gems in the last release and they don't play well with different ruby versions other than the one the gem was built with. This release is just to bump the version number in order to skip the native gem on rubyforge.

2009-05-10 (1.1.5)
* Started to build gems with rake-compiler gem.
* Applied patch object/array class patch from Brian Candler <B.Candler@pobox.com> and fixes.

2009-04-01 (1.1.4)
* Fixed a bug in the creation of serialized generic rails objects reported by Friedrich Graeter <graeter@hydrixos.org>.
* Deleted tests/runner.rb, we're using testrb instead.
* Editor supports Infinity in numbers now.
* Made some changes in order to get the library to compile/run under Ruby 1.9.
* Improved speed of the code path for the fast_generate method in the pure variant.
2008-07-10 (1.1.3)
* Wesley Beary <monki@geemus.com> reported a bug in json/add/core's DateTime handling: If the nominator and denominator of the offset were divisible by each other Ruby's Rational#to_s returns them as an integer not a fraction with '/'. This caused a ZeroDivisionError during parsing.
* Use Date#start and DateTime#start instead of sg method, while remaining backwards compatible.
* Supports ragel >= 6.0 now.
* Corrected some tests.

2007-11-27 (1.1.2)
* Remember default dir (last used directory) in editor.
* JSON::Editor.edit method added, the editor can now receive json texts from the clipboard via C-v.
* Load json texts from an URL pasted via middle button press.
* Added :create_additions option to Parser. This makes it possible to disable the creation of additions by force, in order to treat json texts as data while having additions loaded.
* Jacob Maine <jmaine@blurb.com> reported, that JSON(:foo) outputs a JSON object if the rails addition is enabled, which is wrong. It now outputs a JSON string "foo" instead, like suggested by Jacob Maine.
* Discovered a bug in the Ruby Bugs Tracker on rubyforge, that was reported by John Evans lgastako@gmail.com. He could produce a crash in the JSON generator by returning something other than a String instance from a to_json method. I now guard against this by doing a rather crude type check, which raises an exception instead of crashing.

2007-07-06 (1.1.1)
* Yui NARUSE <naruse@airemix.com> sent some patches to fix tests for Ruby 1.9. I applied them and adapted some of them a bit to run both on 1.8 and 1.9.
* Introduced a JSON.parse! method without depth checking for people who like danger.
* Made generate and pretty_generate methods configurable by an options hash.
* Added :allow_nan option to parser and generator in order to handle NaN, Infinity, and -Infinity correctly - if requested. Floats, which aren't numbers, aren't valid JSON according to RFC4627, so by default an exception will be raised if any of these symbols are encountered. Thanks to Andrea Censi <andrea.censi@dis.uniroma1.it> for his hint about this.
* Fixed some more tests for Ruby 1.9.
* Implemented dump/load interface of Marshal as suggested in ruby-core:11405 by murphy <murphy@rubychan.de>.
* Implemented the max_nesting feature for generate methods, too.
* Added some implementations for ruby core's custom objects for serialisation/deserialisation purposes.

2007-05-21 (1.1.0)
* Implemented max_nesting feature for parser to avoid stack overflows for data from untrusted sources. If you trust the source, you can disable it with the option max_nesting => false.
* Piers Cawley <pdcawley@bofh.org.uk> reported a bug, that not every character can be escaped by `?\` as required by RFC4627. There's a contradiction between David Crockford's JSON checker test vectors (in tests/fixtures) and RFC4627, though. I decided to stick to the RFC, because the JSON checker seems to be a bit older than the RFC.

* Extended license to Ruby License, which includes the GPL.

* Added keyboard shortcuts, and 'Open location' menu item to edit_json.rb.

** 2007-05-09 (1.0.4)

* Applied a patch from Yui NARUSE <naruse@airemix.com> to make JSON compile under Ruby 1.9. Thank you very much for mailing it to me!

* Made binary variants of JSON fail early, instead of falling back to the pure version. This should avoid overshadowing of eventual problems while loading of the binary.

** 2007-03-24 (1.0.3)

* Improved performance of pure variant a bit.

* The ext variant of this release supports the mswin32 platform. Ugh!

** 2007-03-24 (1.0.2)

* Ext Parser didn't parse 0e0 correctly into 0.0: Fixed!

** 2007-03-24 (1.0.1)

*Forgot some object files in the build dir. I really like that - not!

** 2007-03-24 (1.0.0)

* Added C implementations for the JSON generator and a ragel based JSON parser in C.

* Much more tests, especially fixtures from json.org.

* Further improved conformance to RFC4627.

** 2007-02-09 (0.4.3)

* Conform more to RFC4627 for JSON: This means JSON strings now always must contain exactly one object "{ ... }" or array "[ ... ]" in order to be parsed without raising an exception. The definition of what constitutes a whitespace is narrower in JSON than in Ruby ([\t\r\n\u000b]), and there are differences in floats and integers (no octals or hexadecimals) as well.

* Added aliases generate and pretty_generate of unparse and pretty_unparse.

* Fixed a test case.

* Catch an Iconv::InvalidEncoding exception, that seems to occur on some Sun boxes with SunOS 5.8, if iconv doesn't support utf16 conversions. This was reported by Andrew R Jackson <andrewj@bcm.tmc.edu>, thanks a bunch!

** 2006-08-25 (0.4.2)

* Fixed a bug in handling solidi (/-characters), that was reported by Kevin Gilpin <kevin.gilpin@alum.mit.edu>.

** 2006-02-06 (0.4.1)

* Fixed a bug related to escaping with backslashes. Thanks for the report go to Florian Munz <surf@theflow.de>.

** 2005-09-23 (0.4.0)

* Initial Rubyforge Version

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Found in path(s):

* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d8-tar-gz/flori-json-
7f4cf8d/CHANGES
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 */

Found in path(s):
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/StringDecoder.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/ParserService.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/Generator.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/Parser.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/RuntimeInfo.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/GeneratorMethods.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/OptionsReader.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/GeneratorState.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/ByteListTranscoder.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/Utils.java
* /opt/cola/permits/1155786218_1619044692.05/0/flori-json-v1-8-6-0-g7f4cf8d-tar-gz/flori-json-
7f4cf8d/java/src/json/ext/GeneratorService.java

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1.768 @mapbox/vector-tile 3.1.0

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 */
/** *
 * Constructs a new [@link Textifier]. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/commons/InstructionAdapter.java
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jar/org/objectweb/asm/optimizer/Constant.java
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*/
/**
* Constructs a new [@link ClassNode]. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the [@link #ClassNode(int)]
* 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
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* &lt;tt&gt;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/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/tree/LocalVariableAnnotationNode.java
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  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/TypeReference.java
  * /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-jar/org/objectweb/asm/TypePath.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 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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 */
/**
 * 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.
*/

Found in path(s):
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/optimizer/shrink-signatures.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/optimizer/shrink-annotations.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/optimizer/shrink-frames.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/optimizer/shrink.properties
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
  jar/org/objectweb/asm/optimizer/shrink-resize.properties
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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}).
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
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jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/Processor.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXCodeAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1136404780_1613763524.85/0/asm-tree-5-0-4-sources-5-
jar/org/objectweb/asm/xml/SAXFieldAdapter.java

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

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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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Mortbay

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https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas
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1.783 elfutils 0.170-0.4ubuntu0.1

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1.784 debianutils 4.9.1

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1.785 json-pure 2.3.0
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1.786 libsepol 3.0 1

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2006-Jan-27
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1.793 jackc-chunkreader 2.0.1

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1.795 mesa 21.2.6-0ubuntu0.1~20.04.2
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# SOFTWARE.

libfreedreno_layout = static_library(
    'freedreno_layout',
    [
        'fd5_layout.c',
        'fd6_layout.c',
        'freedreno_layout.c',
    ],
    include_directories : [inc_freedreno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
    c_args : [no_override_init_args],
    gnu_symbol_visibility : 'hidden',
    dependencies : [idep_nir_headers, idep_mesautil],
    build_by_default : false,
)

foreach major : ['5', '6']
test( 'fd' + major + '_layout',
    executable( 'fd' + major + '_layout',
        [
            'fd_layout_test.c',
            'fd' + major + '_layout_test.c',
            freedreno_xml_header_files,
        ],
        link_with: libfreedreno_layout,
        dependencies : idep_mesautil,
        include_directories: [
            inc_include,
            inc_src,
            inc_mapi,
            inc_mesa,
            inc_gallium,
            inc_gallium_aux,
        ]
    )
)
inc_freedreno],
),
suite : ['freedreno'],
)
endforeach
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1.796 libpciaccess 0.16-0ubuntu1

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1.797 stringio 0.1.0

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1.798 kustomize-api 0.8.11

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

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This is why click-contrib_ exists. The GitHub organization is a collection of possibly experimental third-party packages whose featureset does not belong into Click, but also a playground for major features that may be added to Click in the future. It is also meant to coordinate and concentrate effort on writing third-party extensions for Click, and to ease the effort of searching for such extensions. In that sense it could be described as a low-maintenance alternative to extension repositories of other frameworks.

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.. _click-contrib: https://github.com/click-contrib/

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* /opt/cola/permits/1298235603_1649268976.82/0/click-8-1-2-tar-gz/click-8.1.2/docs/contrib.rst

1.803 gnutls 3.5.8-5+deb9u5
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## Constant-time SSSE3 AES core implementation.
## version 0.1
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#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
```
use strict;
use Algorithm::Diff qw(diff);
use File::stat;
use vars qw ($opt_C $opt_c $opt_u $opt_U);
use Getopt::Std;

my $usage = << "ENDUSAGE";
Usage: $0 [{-c | -u}] [{-C | -U} lines] oldfile newfile
 -c will do a context diff with 3 lines of context
 -C will do a context diff with 'lines' lines of context
 -u will do a unified diff with 3 lines of context
 -U will do a unified diff with 'lines' lines of context
ENDUSAGE

getopts('U:C:cu') or bag("Usage");
bag("Usage") unless @ARGV == 2;
my ($file1, $file2) = @ARGV;
if (defined $opt_C || defined $opt_c) {
  $opt_c = ""; # -c on if -C given on command line
  $opt_u = undef;
} elsif (defined $opt_U || defined $opt_u) {
  $opt_u = ""; # -u on if -U given on command line
  $opt_c = undef;
} else {
  $opt_c = ""; # by default, do context diff, not old diff
}

my ($char1, $char2); # string to print before file names
my $Context_Lines; # lines of context to print
if (defined $opt_c) {
  $Context_Lines = defined $opt_C ? $opt_C : 3;
  $char1 = '*' x 3; $char2 = '-' x 3;
} elsif (defined $opt_u) {
  $Context_Lines = defined $opt_U ? $opt_U : 3;
  $char1 = '-' x 3; $char2 = '+' x 3;
}
# After we've read up to a certain point in each file, the number of items
# we've read from each file will differ by $FLD (could be 0)
my $File_Length_Difference = 0;

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
my (@f1, @f2);
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

# diff yields lots of pieces, each of which is basically a Block object
my $diffs = diff(@f1, @f2);
exit 0 unless @$diffs;

my $st = stat($file1);
print "$char1 $file1	", scalar localtime($st->mtime), "\n";

$st = stat($file2);
print "$char2 $file2	", scalar localtime($st->mtime), "\n";

my ($hunk, $oldhunk);

# Loop over hunks. If a hunk overlaps with the last hunk, join them.
# Otherwise, print out the old one.
foreach my $piece (@$diffs) {
    $hunk = new Hunk ($piece, $Context_Lines);
    next unless $oldhunk;
    if ($hunk->does_overlap($oldhunk)) {
        $hunk->prepend_hunk($oldhunk);
    } else {
        $oldhunk->output_diff(@f1, @f2);
    } continue {
        $oldhunk = $hunk;
    }

    # print the last hunk
    $oldhunk->output_diff(@f1, @f2);
    exit 1;
}

# END MAIN PROGRAM

sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}
# Package Hunk. A Hunk is a group of Blocks which overlap because of the
# context surrounding each block. (So if we're not using context, every
# hunk will contain one block.)
{
package Hunk;
sub new {
# Arg1 is output from &LCS::diff (which corresponds to one Block)
# Arg2 is the number of items (lines, e.g.,) of context around each block
#
# This subroutine changes $File_Length_Difference
#
# Fields in a Hunk:
# blocks
- a list of Block objects
# start
- index in file 1 where first block of the hunk starts
# end
- index in file 1 where last block of the hunk ends
#
# Variables:
# before_diff - how much longer file 2 is than file 1 due to all hunks
#
until but NOT including this one
# after_diff - difference due to all hunks including this one
my ($class, $piece, $context_items) = @_;
my $block = new Block ($piece); # this modifies $FLD!
my $before_diff = $File_Length_Difference; # BEFORE this hunk
my $after_diff = $before_diff + $block->{"length_diff"};
$File_Length_Difference += $block->{"length_diff"};
# @remove_array and @insert_array hold the items to insert and remove
# Save the start & beginning of each array. If the array doesn't exist
# though (e.g., we're only adding items in this block), then figure
# out the line number based on the line number of the other file and
# the current difference in file lengths
my @remove_array = $block->remove;
my @insert_array = $block->insert;
my ($a1, $a2, $b1, $b2, $start1, $start2, $end1, $end2);
$a1 = @remove_array ? $remove_array[0 ]->{"item_no"} : -1;
$a2 = @remove_array ? $remove_array[-1]->{"item_no"} : -1;
$b1 = @insert_array ? $insert_array[0 ]->{"item_no"} : -1;
$b2 = @insert_array ? $insert_array[-1]->{"item_no"} : -1;
$start1 = $a1 == -1 ? $b1 - $before_diff : $a1;
$end1 = $a2 == -1 ? $b2 - $after_diff : $a2;
$start2 = $b1 == -1 ? $a1 + $before_diff : $b1;
$end2 = $b2 == -1 ? $a2 + $after_diff : $b2;

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# At first, a hunk will have just one Block in it
my $hunk = {
    "start1" => $start1,
    "start2" => $start2,
    "end1" => $end1,
    "end2" => $end2,
    "blocks" => [{$block},
                    ];
};
bless $hunk, $class;

$hunk->flag_context($context_items);

return $hunk;
}

# Change the "start" and "end" fields to note that context should be added
# to this hunk
sub flag_context {
    my ($hunk, $context_items) = @_; 
    return unless $context_items; # no context

    # add context before
    my $start1 = $hunk->{"start1"};
    my $num_added = $context_items > $start1 ? $start1 : $context_items;
    $hunk->{"start1"} -= $num_added;
    $hunk->{"start2"} -= $num_added;

    # context after
    my $end1 = $hunk->{"end1"};
    $num_added = ($end1+$context_items > $#f1) ?
                     $#f1 - $end1 :
                     $context_items;
    $hunk->{"end1"} += $num_added;
    $hunk->{"end2"} += $num_added;
}

# Is there an overlap between hunk arg0 and old hunk arg1?
# Note: if end of old hunk is one less than beginning of second, they overlap
sub does_overlap {
    my ($hunk, $oldhunk) = @_; 
    return "" unless $oldhunk; # first time through, $oldhunk is empty

    # Do I actually need to test both?
    return ($hunk->{"start1"} - $oldhunk->{"end1"} <= 1 ||
               $hunk->{"start2"} - $oldhunk->{"end2"} <= 1);
# Prepend hunk arg1 to hunk arg0
# Note that arg1 isn't updated! Only arg0 is.
sub prepend_hunk {
    my ($hunk, $oldhunk) = @_;

    $hunk->{"start1"} = $oldhunk->{"start1"};
    $hunk->{"start2"} = $oldhunk->{"start2"};

    unshift @{$hunk->{"blocks"}}, @{$oldhunk->{"blocks"}};
}

# DIFF OUTPUT ROUTINES. THESE ROUTINES CONTAIN DIFF FORMATTING INFO...
sub output_diff {
    if (defined $main::opt_u) {&output_unified_diff(@_)}
    elsif (defined $main::opt_c) {&output_context_diff(@_)}
    else {die "unknown diff"
}
}

sub output_unified_diff {
    my ($hunk, $fileref1, $fileref2) = @_; my @blocklist;
    # Calculate item number range.
    my $range1 = $hunk->unified_range(1);
    my $range2 = $hunk->unified_range(2);
    print "@@ -$range1 +$range2 @@
";
    # Outlist starts containing the hunk of file 1.
    # Removing an item just means putting a '-' in front of it.
    # Inserting an item requires getting it from file2 and splicing it in.
    # We splice in $num_added items. Remove blocks use $num_added because
    # splicing changed the length of outlist.
    # We remove $num_removed items. Insert blocks use $num_removed because
    # their item numbers---corresponding to positions in file *2*--- don't take
    # removed items into account.
    my $low = $hunk->{"start1"};
    my $hi = $hunk->{"end1"};
    my ($num_added, $num_removed) = (0,0);
    my @outlist = @$fileref1[$low..$hi];
    map {s/^/ /} @outlist; # assume it's just context
    foreach my $block (@{$hunk->{"blocks"}}) {
        foreach my $item ($block->remove) {
            my $op = $item->{"sign"}; # -
            my $offset = $item->{"item_no"} - $low + $num_added;
            $outlist[$offset] =~ s/^/$op/;
            $num_removed++;
        }
foreach my $item ($block->insert) {
    my $op = $item->{"sign"}; # +
    my $i = $item->{"item_no"};
    my $offset = $i - $hunk->{"start2"} + $num_removed;
    splice(@outlist,$offset,0,"$op$fileref2[$i]");
    $num_added++;
}
map {s/$/
/} @outlist; # add \n's
print @outlist;

sub output_context_diff {
    my ($hunk, $fileref1, $fileref2) = @_; 
    my @blocklist;

    print "***************
    # Calculate item number range.
    my $range1 = $hunk->context_range(1);
    my $range2 = $hunk->context_range(2);

    # Print out file 1 part for each block in context diff format if there are
    # any blocks that remove items
    print "**** $range1 ****
    my $low = $hunk->{"start1"};
    my $hi  = $hunk->{"end1"};
    if (@blocklist = grep {$_->remove} @{$hunk->{"blocks"}}) {
        my @outlist = @$fileref1[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        foreach my $block (@blocklist) {
            my $op = $block->op; # - or !
            foreach my $item ($block->remove) {
                $outlist[$item->{"item_no"} - $low] =~ s/^/$op/;
            }
        }
        map {s/$/
/} @outlist; # add \n's
        print @outlist;
    }
    print "--- $range2 ----
    $low = $hunk->{"start2"};
    $hi  = $hunk->{"end2"};
    if (@blocklist = grep {$_->insert} @{$hunk->{"blocks"}}) {
        my @outlist = @$fileref2[$low..$hi];
        map {s/^/  /} @outlist; # assume it's just context
        map {s/$/
/} @outlist; # add \n's
        print @outlist;
    }
}
foreach my $block (@blocklist) {
    my $op = $block->{op}; # + or !
    foreach my $item ($block->{insert}) {
        $outlist{$item->{"item_no"} - $low} =~ s/^ /$op/;
    }
}
map {s/$/
/} @outlist; # add \n's
print @outlist;
}

sub context_range {
    # Generate a range of item numbers to print. Only print 1 number if the range
    # has only one item in it. Otherwise, it's 'start,end'
    my ($hunk, $flag) = @_; # ...
    my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
    $start++; $end++;  # index from 1, not zero
    my $range = ($start < $end) ? "$start,$end" : $end;
    return $range;
}

sub unified_range {
    # Generate a range of item numbers to print for unified diff
    # Print number where block starts, followed by number of lines in the block
    # (don't print number of lines if it's 1)
    my ($hunk, $flag) = @_; # ...
    my ($start, $end) = ($hunk->{"start$flag"},$hunk->{"end$flag"});
    $start++; $end++;  # index from 1, not zero
    my $length = $end - $start + 1;
    my $first = $length < 2 ? $end : $start; # strange, but correct...
    my $range = $length== 1 ? $first : "$first,$length";
    return $range;
}
} # end Package Hunk

# Package Block. A block is an operation removing, adding, or changing
# a group of items. Basically, this is just a list of changes, where each
# change adds or deletes a single item.
# (Change could be a separate class, but it didn't seem worth it)
{
    package Block;
    sub new {
        # Input is a chunk from &Algorithm::LCS::diff
        # Fields in a block:
        # length_diff - how much longer file 2 is than file 1 due to this block
        # Each change has:
        # sign        - '+' for insert, '-' for remove
        # item_no     - number of the item in the file (e.g., line number)
# We don't bother storing the text of the item
#
my ($class,$chunk) = @_;
my @changes = ();

# This just turns each change into a hash.
foreach my $item (@$chunk) {
my ($sign, $item_no, $text) = @$item;
my $hashref = { "sign" => $sign, "item_no" => $item_no };  
push @changes, $hashref;
}

my $block = { "changes" => \@changes };  
bless $block, $class;

$block->{"length_diff"} = $block->insert - $block->remove;
return $block;
}

# LOW LEVEL FUNCTIONS
sub op {
# what kind of block is this?
my $block = shift;
my $insert = $block->insert;
my $remove = $block->remove;

$remove && $insert and return '!

$remove and return ':'

$insert and return '+':
warn "unknown block type";
return '^'; # context block
}

# Returns a list of the changes in this block that remove items
# (or the number of removals if called in scalar context)
sub remove { return grep {$_->{"sign"} eq '-'} @{shift->{"changes"}}; }

# Returns a list of the changes in this block that insert items
sub insert { return grep {$_->{"sign"} eq '+'} @{shift->{"changes"}}; }

} # end of package Block

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/cdiff.pl
No license file was found, but licenses were detected in source scan.
#!/usr/bin/perl
#
# `Diff' program in Perl
# Copyright 1998 M-J. Dominus. (mjd-perl-diff@plover.com)
#
# This program is free software; you can redistribute it and/or modify it
# under the same terms as Perl itself.
#
use Algorithm::Diff qw(diff);

bag("Usage: $0 oldfile newfile") unless @ARGV == 2;

my ($file1, $file2) = @ARGV;

# -f $file1 or bag("$file1: not a regular file");
# -f $file2 or bag("$file2: not a regular file");

-T $file1 or bag("$file1: binary");
-T $file2 or bag("$file2: binary");

open (F1, $file1) or bag("Couldn't open $file1: $!");
open (F2, $file2) or bag("Couldn't open $file2: $!");
chomp(@f1 = <F1>);
close F1;
chomp(@f2 = <F2>);
close F2;

$diffs = diff(\@f1, \@f2);
exit 0 unless @$diffs;

foreach $chunk (@$diffs) {
    foreach $line (@$chunk) {
        my ($sign, $lineno, $text) = @$line;
        printf "%4d$sign %s\n", $lineno+1, $text;
    }
    print "--------\n";
}
exit 1;
sub bag {
    my $msg = shift;
    $msg .= "\n";
    warn $msg;
    exit 2;
}

Found in path(s):
  * /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/diff.pl
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 6.98, CPAN::Meta::Converter version 2.141170'
license: unknown
meta-spec:
    url: http://module-build.sourceforge.net/META-spec-v1.4.html
    version: '1.4'
name: Algorithm-Diff
no_index:
directory:
    - t
    - inc
requires: {}
version: '1.1903'

Found in path(s):
  * /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-1-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

Algorithm::Diff - Compute `intelligent' differences between two files / lists

=head1 SYNOPSIS

    require Algorithm::Diff;
# This example produces traditional 'diff' output:

my $diff = Algorithm::Diff->new( \@seq1, \@seq2 );

$diff->Base( 1 );  # Return line numbers, not indices
while( $diff->Next() ) {
    next if $diff->Same();
    my $sep = " ";
    if( ! $diff->Items(2) ) {
        printf "%d,%dd%d
", $diff->Get(qw( Min1 Max1 Max2 ));
    } elsif( ! $diff->Items(1) ) {
        printf "%da%d,%d
", $diff->Get(qw( Max1 Min2 Max2 ));
    } else {
        $sep = "---\n";
        printf "%d,\d%dc%d,\d%dn", $diff->Get(qw( Min1 Max1 Min2 Max2 ));
    }
    print "< $_" for $diff->Items(1);
    print $sep;
    print "> $_" for $diff->Items(2);
}

# Alternate interfaces:

use Algorithm::Diff qw(
    LCS LCS_length LCSidx
    diff sdiff compact_diff
    traverse_sequences traverse_balanced );

@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
$count = LCS_length( \@seq1, \@seq2 );

( $seq1idxref, $seq2idxref ) = LCSidx( \@seq1, \@seq2 );

# Complicated interfaces:

@difs = diff( \@seq1, \@seq2 );

@sdiffs = sdiff( \@seq1, \@seq2 );

@cdiffs = compact_diff( \@seq1, \@seq2 );

traverse_sequences
I once read an article written by the authors of C<diff>; they said that they worked very hard on the algorithm until they found the right one.

I think what they ended up using (and I hope someone will correct me, because I am not very confident about this) was the 'longest common subsequence' method. In the LCS problem, you have two sequences of items:

```
  a b c d f g h j q z
```

```
  a b c d e f g i j k r x y z
```

and you want to find the longest sequence of items that is present in both original sequences in the same order. That is, you want to find a new sequence I<S> which can be obtained from the first sequence by deleting some items, and from the second sequence by deleting other items. You also want I<S> to be as long as possible. In this case I<S> is

```
  a b c f g j z
```
From there it's only a small step to get diff-like output:

```
e   h i   k   q r x y
+   - +   +   - + + +
```

This module solves the LCS problem. It also includes a canned function to generate C<diff>-like output.

It might seem from the example above that the LCS of two sequences is always pretty obvious, but that's not always the case, especially when the two sequences have many repeated elements. For example, consider

```
  a b y c z p d q
  a b c a x b y c z
```

A naive approach might start by matching up the C<a> and C<b> that appear at the beginning of each sequence, like this:

```
  a x b y c z p d q
  a b c a b y c z
```

This finds the common subsequence C<a b c z>. But actually, the LCS is C<a x b y c z>:

```
  a x b y c z p d q
  a b c a x b y c z
```

or

```
  a x b y c z p d q
  a b c a x b y c z
```

=head1 USAGE

(See also the README file and several example scripts include with this module.)

This module now provides an object-oriented interface that uses less memory and is easier to use than most of the previous procedural interfaces. It also still provides several exportable functions. We'll deal with these in ascending order of difficulty: C<LCS>, C<LCS_length>, C<LCSidx>, OO interface, C<prepare>, C<diff>, C<sdiff>, C<traverse_sequences>, and C<traverse_balanced>.

=head2 C<LCS>

Given references to two lists of items, LCS returns an array containing
their longest common subsequence. In scalar context, it returns a reference to such a list.

```perl
@lcs = LCS( \@seq1, \@seq2 );
$lcsref = LCS( \@seq1, \@seq2 );
```

C<LCS> may be passed an optional third parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

```perl
@lcs = LCS( \@seq1, \@seq2, \&keyGen, @args );
$lcsref = LCS( \@seq1, \@seq2, \&keyGen, @args );
```

Additional parameters, if any, will be passed to the key generation routine.

=head2 C<LCS_length>

This is just like C<LCS> except it only returns the length of the longest common subsequence. This provides a performance gain of about 9% compared to C<LCS>.

=head2 C<LCSidx>

Like C<LCS> except it returns references to two arrays. The first array contains the indices into @seq1 where the LCS items are located. The second array contains the indices into @seq2 where the LCS items are located.

Therefore, the following three lists will contain the same values:

```perl
my( $idx1, $idx2 ) = LCSidx( \@seq1, \@seq2 );
my @list1 = @seq1[ @$idx1 ];
my @list2 = @seq2[ @$idx2 ];
my @list3 = LCS( \@seq1, \@seq2 );
```

=head2 C<new>

```perl
$diff = Algorithm::Diffs->new( \@seq1, \@seq2 );
$diff = Algorithm::Diffs->new( \@seq1, \@seq2, %opts );
```

C<new> computes the smallest set of additions and deletions necessary to turn the first sequence into the second and compactly records them in the object.

You use the object to iterate over I<hunks>, where each hunk represents a contiguous section of items which should be added, deleted, replaced, or left unchanged.
The following summary of all of the methods looks a lot like Perl code but some of the symbols have different meanings:

[ ] Encloses optional arguments
: Is followed by the default value for an optional argument
| Separates alternate return results

Method summary:

```perl
$obj = Algorithm::Diff->new( \@seq1, \@seq2, [ \%opts ] );

$pos = $obj->Next( [ $count : 1 ] );
$revPos = $obj->Prev( [ $count : 1 ] );
$obj = $obj->Reset( [ $pos : 0 ] );
$copy = $obj->Copy( [ $pos, [ $newBase ] ] );
$oldBase = $obj->Base( [ $newBase ] );
```

Note that all of the following methods `C<die>` if used on an object that is "reset" (not currently pointing at any hunk).

```perl
<bits = $obj->Diff();
@items|@cnt = $obj->Same( );
@items|@cnt = $obj->Items( $seqNum );
@idxs |@cnt = $obj->Range( $seqNum, [ $base ] );
$minIdx = $obj->Min( $seqNum, [ $base ] );
$maxIdx = $obj->Max( $seqNum, [ $base ] );
@values = $obj->Get( @names );
```

Passing in `C<undef>` for an optional argument is always treated the same as if no argument were passed in.

=item C<Next>

```perl
$pos = $diff->Next(); # Move forward 1 hunk
$pos = $diff->Next( 2 ); # Move forward 2 hunks
$pos = $diff->Next(-5); # Move backward 5 hunks
```

`C<Next>` moves the object to point at the next hunk. The object starts out "reset", which means it isn't pointing at any hunk. If the object is reset, then `C<Next()>` moves to the first hunk.

`C<Next>` returns a true value iff the move didn't go past the last hunk. So `C<Next(0)>` will return true iff the object is not reset.

Actually, `C<Next>` returns the object's new position, which is a number between 1 and the number of hunks (inclusive), or returns a false value.
=item C<Prev>

C<Prev($N)> is almost identical to C<Next(-$N)>; it moves to the $Nth previous hunk. On a 'reset' object, C<Prev()> [and C<Next(-1)>] move to the last hunk.

The position returned by C<Prev> is relative to the I<end> of the hunks; -1 for the last hunk, -2 for the second-to-last, etc.

=item C<Reset>

$diff->Reset(); # Reset the object's position
$diff->Reset($pos); # Move to the specified hunk
$diff->Reset(1);  # Move to the first hunk
$diff->Reset(-1); # Move to the last hunk

C<Reset> returns the object, so, for example, you could use C<< $diff->Reset()->Next(-1) >> to get the number of hunks.

=item C<Copy>

$copy = $diff->Copy( $newPos, $newBase );

C<Copy> returns a copy of the object. The copy and the original object share most of their data, so making copies takes very little memory. The copy maintains its own position (separate from the original), which is the main purpose of copies. It also maintains its own base.

By default, the copy's position starts out the same as the original object's position. But C<Copy> takes an optional first argument to set the new position, so the following three snippets are equivalent:

$copy = $diff->Copy($pos);

$copy = $diff->Copy();
$copy->Reset($pos);

$copy = $diff->Copy()->Reset($pos);

C<Copy> takes an optional second argument to set the base for the copy. If you wish to change the base of the copy but leave the position the same as in the original, here are two equivalent ways:

$copy = $diff->Copy();
$copy->Base( 0 );

$copy = $diff->Copy(undef,0);
Here are two equivalent way to get a "reset" copy:

$copy = $diff->Copy(0);

$copy = $diff->Copy()->Reset();

=item C<Diff>

<bits = $obj->Diff();

C<Diff> returns a true value iff the current hunk contains items that are different between the two sequences. It actually returns one of the follow 4 values:

=over 4

=item 3

C<3==(1|2)>. This hunk contains items from @seq1 and the items from @seq2 that should replace them. Both sequence 1 and 2 contain changed items so both the 1 and 2 bits are set.

=item 2

This hunk only contains items from @seq2 that should be inserted (not items from @seq1). Only sequence 2 contains changed items so only the 2 bit is set.

=item 1

This hunk only contains items from @seq1 that should be deleted (not items from @seq2). Only sequence 1 contains changed items so only the 1 bit is set.

=item 0

This means that the items in this hunk are the same in both sequences. Neither sequence 1 nor 2 contain changed items so neither the 1 nor the 2 bits are set.

=back

=item C<Same>

C<Same> returns a true value iff the current hunk contains items that are the same in both sequences. It actually returns the list of items if they are the same or an empty list if they aren't. In a scalar
context, it returns the size of the list.

=item C<Items>

```perl
$count = $diff->Items(2);
@items = $diff->Items($seqNum);
```

C<Items> returns the (number of) items from the specified sequence that are part of the current hunk.

If the current hunk contains only insertions, then `C<< $diff->Items(1) >>` will return an empty list (0 in a scalar context).
If the current hunk contains only deletions, then `C<< $diff->Items(2) >>` will return an empty list (0 in a scalar context).

If the hunk contains replacements, then both `C<< $diff->Items(1) >>` and `C<< $diff->Items(2) >>` will return different, non-empty lists.

Otherwise, the hunk contains identical items and all of the following will return the same lists:

```perl
@items = $diff->Items(1);
@items = $diff->Items(2);
@items = $diff->Same();
```

=item C<Range>

```perl
$count = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum );
@indices = $diff->Range( $seqNum, $base );
```

C<Range> is like C<Items> except that it returns a list of L<indices> to the items rather than the items themselves. By default, the index of the first item (in each sequence) is 0 but this can be changed by calling the C<Base> method. So, by default, the following two snippets return the same lists:

```perl
@list = $diff->Items(2);
@list = @seq2[ $diff->Range(2) ];
```

You can also specify the base to use as the second argument. So the following two snippets I<always> return the same lists:

```perl
@list = $diff->Items(1);
@list = @seq1[ $diff->Range(1,0) ];
```

=item C<Base>
$curBase = $diff->Base();
$oldBase = $diff->Base($newBase);

C<Base> sets and/or returns the current base (usually 0 or 1) that is used when you request range information. The base defaults to 0 so that range information is returned as array indices. You can set the base to 1 if you want to report traditional line numbers instead.

=item C<Min>

$min1 = $diff->Min(1);
$min = $diff->Min( $seqNum, $base );

C<Min> returns the first value that C<Range> would return (given the same arguments) or returns C<undef> if C<Range> would return an empty list.

=item C<Max>

C<Max> returns the last value that C<Range> would return or C<undef>.

=item C<Get>

( $n, $x, $r ) = $diff->Get(qw( min1 max1 range1 ));
@values = $diff->Get(qw( 0min2 1max2 range2 same base ));

C<Get> returns one or more scalar values. You pass in a list of the names of the values you want returned. Each name must match one of the following regexes:

/^(-?d+)?(min|max)[12]/i
/^range[12]|same|diff|base$/i

The 1 or 2 after a name says which sequence you want the information for (and where allowed, it is required). The optional number before "min" or "max" is the base to use. So the following equalities hold:

$diff->Get('min1') == $diff->Min(1)
$diff->Get('0min2') == $diff->Min(2,0)

Using C<Get> in a scalar context when you've passed in more than one name is a fatal error (C<die> is called).

=back

=head2 C<prepare>

Given a reference to a list of items, C<prepare> returns a reference
to a hash which can be used when comparing this sequence to other sequences with \texttt{LCS} or \texttt{LCS\_length}.

\begin{verbatim}
$prep = prepare( \@seq1 );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $prep, $seq[$i] );
    # do something useful with @lcs
}
\end{verbatim}

\texttt{prepare} may be passed an optional third parameter; this is a \texttt{CODE} reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

\begin{verbatim}
$prep = prepare( \@seq1, \&keyGen );
for $i ( 0 .. 10_000 )
{
    @lcs = LCS( $seq[$i], $prep, \&keyGen );
    # do something useful with @lcs
}
\end{verbatim}

Using \texttt{prepare} provides a performance gain of about 50\% when calling LCS many times compared with not preparing.

=head2 \texttt{diff}

@difs = diff( \@seq1, \@seq2 );
$diffs\_ref = diff( \@seq1, \@seq2 );

\texttt{diff} computes the smallest set of additions and deletions necessary to turn the first sequence into the second, and returns a description of these changes. The description is a list of \texttt{hunks}; each hunk represents a contiguous section of items which should be added, deleted, or replaced. (Hunks containing unchanged items are not included.)

The return value of \texttt{diff} is a list of hunks, or, in scalar context, a reference to such a list. If there are no differences, the list will be empty.

Here is an example. Calling \texttt{diff} for the following two sequences:

\begin{verbatim}
a b c e h j l m n p
b c d e f j k l m r s t
\end{verbatim}

would produce the following list:

\begin{verbatim}
(\)
\end{verbatim}
[ [ '-', 0, 'a' ] ],
[ [ '+', 2, 'd' ] ],
[ [ '-', 4, 'h' ],
[ '+', 4, 'f' ] ],
[ [ '+', 6, 'k' ] ],
[ [ '-', 8, 'n' ],
[ '-', 9, 'p' ],
[ '+', 9, 'r' ],
[ '+', 10, 's' ],
[ '+', 11, 't' ] ],
)
There are five hunks here. The first hunk says that the C<a> at
position 0 of the first sequence should be deleted (C<->). The second
hunk says that the C<d> at position 2 of the second sequence should
be inserted (C<+>). The third hunk says that the C<h> at position 4
of the first sequence should be removed and replaced with the C<f>
from position 4 of the second sequence. And so on.
C<diff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.
Additional parameters, if any, will be passed to the key generation
routine.
=head2 C<sdiff>
@sdiffs = sdiff( \@seq1, \@seq2 );
$sdiffs_ref = sdiff( \@seq1, \@seq2 );
C<sdiff> computes all necessary components to show two sequences
and their minimized differences side by side, just like the
Unix-utility I<sdiff> does:
same
same
before | after
old
< > new
It returns a list of array refs, each pointing to an array of
display instructions. In scalar context it returns a reference
to such a list. If there are no differences, the list will have one
entry per item, each indicating that the item was unchanged.

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Display instructions consist of three elements: A modifier indicator
(C<+>: Element added, C<->: Element removed, C<u>: Element unmodified,
C<c>: Element changed) and the value of the old and new elements, to
be displayed side-by-side.

An C<sdiff> of the following two sequences:

    a b c e h j l m n p
    b c d e f j k l m r s t

results in

    ( [ '-', 'a', ''  ],
      [ 'u', 'b', 'b' ],
      [ 'u', 'c', 'c' ],
      [ '+' , '', 'd' ],
      [ 'u', 'e', 'e' ],
      [ 'c', 'h', 'f' ],
      [ 'u', 'j', 'j' ],
      [ '+' , '', 'k' ],
      [ 'u', 'l', 'l' ],
      [ 'u', 'm', 'm' ],
      [ 'c', 'n', 'r' ],
      [ 'c', 'p', 's' ],
      [ '+' , '', 't' ],
      )

C<sdiff> may be passed an optional third parameter; this is a CODE
reference to a key generation function. See L</KEY GENERATION
FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation
routine.

=head2 C<compact_diff>

C<compact_diff> is much like C<sdiff> except it returns a much more
compact description consisting of just one flat list of indices. An
example helps explain the format:

    my @a = qw( a b c e h j l m n p );
    my @b = qw( b c d e f j k l m r s t );
    @cdiff = compact_diff( \@a, \@b );
    # Returns:
    # @a   @b   @a   @b
    # start start values values
    ( 0, 0, # =
The 0th, 2nd, 4th, etc. entries are all indices into @seq1 (@a in the above example) indicating where a hunk begins. The 1st, 3rd, 5th, etc. entries are all indices into @seq2 (@b in the above example) indicating where the same hunk begins.

So each pair of indices (except the last pair) describes where a hunk begins (in each sequence). Since each hunk must end at the item just before the item that starts the next hunk, the next pair of indices can be used to determine where the hunk ends.

So, the first 4 entries (0..3) describe the first hunk. Entries 0 and 1 describe where the first hunk begins (and so are always both 0). Entries 2 and 3 describe where the next hunk begins, so subtracting 1 from each tells us where the first hunk ends. That is, the first hunk contains items C<$diff[0]$> through C<$diff[2] - 1$> of the first sequence and contains items C<$diff[1]$> through C<$diff[3] - 1$> of the second sequence.

In other words, the first hunk consists of the following two lists of items:

```
# 1st pair  2nd pair
# of indices  of indices
@list1 = @a[ $cdiff[0] .. $cdiff[2]-1 ];
@list2 = @b[ $cdiff[1] .. $cdiff[3]-1 ];
# Hunk start  Hunk end
```

Note that the hunks will always alternate between those that are part of the LCS (those that contain unchanged items) and those that contain changes. This means that all we need to be told is whether the first hunk is a 'same' or 'diff' hunk and we can determine which of the other hunks contain 'same' items or 'diff' items.

By convention, we always make the first hunk contain unchanged items. So the 1st, 3rd, 5th, etc. hunks (all odd-numbered hunks if you start counting from 1) all contain unchanged items. And the 2nd, 4th, 6th, etc. hunks (all even-numbered hunks if you start counting from 1) all
contain changed items.

Since @a and @b don't begin with the same value, the first hunk in our example is empty (otherwise we'd violate the above convention). Note that the first 4 index values in our example are all zero. Plug these values into our previous code block and we get:

```perl
@hunk1a = @a[ 0 .. 0-1 ];
@hunk1b = @b[ 0 .. 0-1 ];
```

And C<0..-1> returns the empty list.

Move down one pair of indices (2..5) and we get the offset ranges for the second hunk, which contains changed items.

Since C<&@diff[2..5]> contains (0,0,1,0) in our example, the second hunk consists of these two lists of items:

```perl
@hunk2a = @a[ $cdiff[2] .. $cdiff[4]-1 ];
@hunk2b = @b[ $cdiff[3] .. $cdiff[5]-1 ];
# or
@hunk2a = @a[ 0 .. 1-1 ];
@hunk2b = @b[ 0 .. 0-1 ];
# or
@hunk2a = @a[ 0 .. 0 ];
@hunk2b = @b[ 0 .. -1 ];
# or
@hunk2a = ( 'a' );
@hunk2b = ( );
```

That is, we would delete item 0 ('a') from @a.

Since C<&@diff[4..7]> contains (1,0,3,2) in our example, the third hunk consists of these two lists of items:

```perl
@hunk3a = @a[ $cdiff[4] .. $cdiff[6]-1 ];
@hunk3a = @b[ $cdiff[5] .. $cdiff[7]-1 ];
# or
@hunk3a = @a[ 1 .. 3-1 ];
@hunk3a = @b[ 0 .. 2-1 ];
# or
@hunk3a = @a[ 1 .. 2 ];
@hunk3a = @b[ 0 .. 1 ];
# or
@hunk3a = qw( b c );
@hunk3a = qw( b c );
```

Note that this third hunk contains unchanged items as our convention demands.
You can continue this process until you reach the last two indices, which will always be the number of items in each sequence. This is required so that subtracting one from each will give you the indices to the last items in each sequence.

=head2 C<traverse_sequences>

C<traverse_sequences> used to be the most general facility provided by this module (the new OO interface is more powerful and much easier to use).

Imagine that there are two arrows. Arrow A points to an element of sequence A, and arrow B points to an element of the sequence B. Initially, the arrows point to the first elements of the respective sequences. C<traverse_sequences> will advance the arrows through the sequences one element at a time, calling an appropriate user-specified callback function before each advance. It will advance the arrows in such a way that if there are equal elements C<$A[i]>$ and C<$B[j]>$ which are equal and which are part of the LCS, there will be some moment during the execution of C<traverse_sequences> when arrow A is pointing to C<$A[i]>$ and arrow B is pointing to C<$B[j]>$ . When this happens, C<traverse_sequences> will call the C.MATCH callback function and then it will advance both arrows.

Otherwise, one of the arrows is pointing to an element of its sequence that is not part of the LCS. C<traverse_sequences> will advance that arrow and will call the C<DISCARD_A> or the C<DISCARD_B> callback, depending on which arrow it advanced. If both arrows point to elements that are not part of the LCS, then C<traverse_sequences> will advance one of them and call the appropriate callback, but it is not specified which it will call.

The arguments to C<traverse_sequences> are the two sequences to traverse, and a hash which specifies the callback functions, like this:

traverse_sequences(
    \@seq1, \@seq2,
    {   MATCH => $callback_1,
        DISCARD_A => $callback_2,
        DISCARD_B => $callback_3,
    }
); 

Callbacks for MATCH, DISCARD_A, and DISCARD_B are invoked with at least the indices of the two arrows as their arguments. They are not expected to return any values. If a callback is omitted from the table, it is not called.
Callbacks for A_FINISHED and B_FINISHED are invoked with at least the corresponding index in A or B.

If arrow A reaches the end of its sequence, before arrow B does, C<traverse_sequences> will call the C<A_FINISHED> callback when it advances arrow B, if there is such a function; if not it will call C<DISCARD_B> instead. Similarly if arrow B finishes first. C<traverse_sequences> returns when both arrows are at the ends of their respective sequences. It returns true on success and false on failure. At present there is no way to fail.

C<traverse_sequences> may be passed an optional fourth parameter; this is a CODE reference to a key generation function. See L</KEY GENERATION FUNCTIONS>.

Additional parameters, if any, will be passed to the key generation function.

If you want to pass additional parameters to your callbacks, but don't need a custom key generation function, you can get the default by passing undef:

```perl
traverse_sequences(
  \@seq1, \@seq2,
  {   MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
  },
  undef,    # default key-gen
  $myArgument1,
  $myArgument2,
  $myArgument3,
);
```

C<traverse_sequences> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head2 C<traverse_balanced>

C<traverse_balanced> is an alternative to C<traverse_sequences>. It uses a different algorithm to iterate through the entries in the computed LCS. Instead of sticking to one side and showing element changes as insertions and deletions only, it will jump back and forth between the two sequences and report I<changes> occurring as deletions on one side followed immediately by an insertion on the other side.

In addition to the C<DISCARD_A>, C<DISCARD_B>, and C.MATCH callbacks
supported by C<traverse_sequences>, C<traverse_balanced> supports a C<CHANGE> callback indicating that one element got C<replaced> by another:

```perl
traverse_balanced(
  \@seq1, \@seq2,
  {   MATCH => $callback_1,
      DISCARD_A => $callback_2,
      DISCARD_B => $callback_3,
      CHANGE    => $callback_4,
  }
);
```

If no C<CHANGE> callback is specified, C<traverse_balanced> will map C<CHANGE> events to C<DISCARD_A> and C<DISCARD_B> actions, therefore resulting in a similar behaviour as C<traverse_sequences> with different order of events.

C<traverse_balanced> might be a bit slower than C<traverse_sequences>, noticeable only while processing huge amounts of data.

The C<sdiff> function of this module is implemented as call to C<traverse_balanced>.

C<traverse_balanced> does not have a useful return value; you are expected to plug in the appropriate behavior with the callback functions.

=head1 KEY GENERATION FUNCTIONS

Most of the functions accept an optional extra parameter. This is a CODE reference to a key generating (hashing) function that should return a string that uniquely identifies a given element. It should be the case that if two elements are to be considered equal, their keys should be the same (and the other way around). If no key generation function is provided, the key will be the element as a string.

By default, comparisons will use "eq" and elements will be turned into keys using the default stringizing operator """.

Where this is important is when you're comparing something other than strings. If it is the case that you have multiple different objects that should be considered to be equal, you should supply a key generation function. Otherwise, you have to make sure that your arrays contain unique references.

For instance, consider this example:

```perl
package Person;
```
sub new
{
    my $package = shift;
    return bless { name => '', ssn => '', @_ }, $package;
}

sub clone
{
    my $old = shift;
    my $new = bless { %$old }, ref($old);
}

sub hash
{
    return shift()->{'ssn'};
}

my $person1 = Person->new( name => 'Joe', ssn => '123-45-6789' );
my $person2 = Person->new( name => 'Mary', ssn => '123-47-0000' );
my $person3 = Person->new( name => 'Pete', ssn => '999-45-2222' );
my $person4 = Person->new( name => 'Peggy', ssn => '123-45-9999' );
my $person5 = Person->new( name => 'Frank', ssn => '000-45-9999' );

If you did this:

    my @array1 = ( $person1, $person2, $person4 );
    my @array2 = ( $person1, $person3, $person4->clone(), $person5 );
    Algorithm::Diff::diff( @array1, @array2 );

everything would work out OK (each of the objects would be converted into a string like "Person=HASH(0x82425b0)" for comparison).

But if you did this:

    my @array1 = ( $person1, $person2, $person4 );
    my @array2 = ( $person1, $person3, $person4->clone(), $person5 );
    Algorithm::Diff::diff( @array1, @array2 );

$person4 and $person4->clone() (which have the same name and SSN) would be seen as different objects. If you wanted them to be considered equivalent, you would have to pass in a key generation function:

    my @array1 = ( $person1, $person2, $person4 );
    my @array2 = ( $person1, $person3, $person4->clone(), $person5 );
    Algorithm::Diff::diff( @array1, @array2, \&Person::hash );

This would use the 'ssn' field in each Person as a comparison key, and so would consider $person4 and $person4->clone() as equal.
You may also pass additional parameters to the key generation function if you wish.

=head1 ERROR CHECKING

If you pass these routines a non-reference and they expect a reference, they will die with a message.

=head1 AUTHOR

This version released by Tye McQueen (http://perlmonks.org/?node=tye).

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=head1 MAILING LIST

Mark-Jason still maintains a mailing list. To join a low-volume mailing list for announcements related to diff and Algorithm::Diff, send an empty mail message to mjd-perl-diff-request@plover.com.

=head1 CREDITS

Versions through 0.59 (and much of this documentation) were written by:

Mark-Jason Dominus, mjd-perl-diff@plover.com

This version borrows some documentation and routine names from Mark-Jason's, but Diff.pm's code was completely replaced.

This code was adapted from the Smalltalk code of Mario Wolczko <mario@wolczko.com>, which is available at ftp://st.cs.uiuc.edu/pub/Smalltalk/MANCHESTER/manchester/4.0/diff.st

C<sdiff> and C<traverse_balanced> were written by Mike Schilli <m@perlmeister.com>.

The algorithm is that described in
I<A Fast Algorithm for Computing Longest Common Subsequences>,
CACM, vol.20, no.5, pp.350-353, May 1977, with a few minor improvements to improve the speed.
Much work was done by Ned Konz (perl@bike-nomad.com).

The OO interface and some other changes are by Tye McQueen.

=cut

Found in path(s):
* /opt/cola/permits/1136574725_1613801364.93/0/libalgorithm-diff-perl-l-19-03-orig-1-tar-gz/Algorithm-Diff-1.1903/lib/Algorithm/Diff.pm

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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/compiler/NoFieldException.java
* /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/runtime/Cflow.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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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/SyntheticAttribute.java
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* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/StringMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/Annotation.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/DoubleMemberValue.java
* /opt/cola/permits/1135864419_1613618067.93/0/javassist-3-22-0-cr2-sources-4-jar/javassist/bytecode/annotation/EnumMemberValue.java
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1.813 logstash-output-sqs 6.0.0

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1.815 procps 3.3.16-1ubuntu2.3
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@end enumerate

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo
@end ifinfo

@page
@heading Appendix: How to Apply These Terms to Your New Programs

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

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@var{one line to give the program's name and a brief idea of what it does.}
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@end example

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@end smallexample

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If distribution of object code is made by offering access to copy
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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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/* OPENBSD ORIGINAL: sys/sys/poll.h */

#if !defined(HAVE_POLL) && !defined(HAVE_POLL_H)
#ifndef_COMPAT_POLL_H_
#define_COMPAT_POLL_H_

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

typedef unsigned int nfds_t;

#define POLLIN 0x0001
#define POLLOUT 0x0004
#define POLLERR 0x0008
#define POLLHUP 0x0010
#define POLLNVAL 0x0020
#if 0
/* the following are currently not implemented */
#define POLLPRI 0x0002
#define POLLRDND 0x0040
#define POLLNORM 0x0020
#define POLLWRNORM 0x0080
#define POLLRDND0x0080
#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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[Tatu continues]  
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- The make-ssh-known-hosts script is no longer included  
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* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
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 */

#ifndef HAVE_SETREGSID
int setresgid(gid_t, gid_t, gid_t);
#endif
#endif HAVE_SETRESUID
int setresuid(uid_t, uid_t, uid_t);
#ifdef
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 *
 */
#endif _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)((_W_INT(w) >> 8) & 0377)
#define WTERMSIG(w)((_W_INT(w) & 0177)
#define WCOREDUMP(w)((_W_INT(w)) & WCOREFLAG)
/* Prototype */
pid_t waitpid(int, int *, int);

#ifdef /* !HAVE_WAITPID */
#else /* _BSD_WAITPID_H */

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* https://github.com/eclipse-ee4j/jersey
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* Project: [https://beanvalidation.org/](https://beanvalidation.org/)

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### 1.830 json-iterator-go 1.1.11

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### 1.831 driver-postgres 1.3.5

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```go
//go:build go1.10
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package pq

import (
    "context"
    "database/sql/driver"
    "database/sql/postgres"
)
```
// NoticeHandler returns the notice handler on the given connection, if any. A
// runtime panic occurs if c is not a pq connection. This is rarely used
// directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A
// runtime panic occurs if c is not a pq connection. A nil handler may be used
// to unset it. This is rarely used directly, use ConnectorNoticeHandler and
// ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler
// on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the
// notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    if err == nil {
        SetNoticeHandler(c, n.noticeHandler)
    }
    return c, err
}

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.

// The returned connector is intended to be used with database/sql.OpenDB.

// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.

func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
        return c
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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1.832 jsp 2.3.FR

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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
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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
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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.857 fstrm 0.6.0-r1

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1.858 adduser 3.118

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Since Nov 27 1996, it was maintained by Guy Maor <maor@debian.org>. He rewrote most of it.

Since May 20 2000, it is maintained by Roland Bauerschmidt <rb@debian.org>.

Since March 24 2004, it is maintained by Roland Bauerschmidt <rb@debian.org>, and co-maintained by Marc Haber <mh+debian-packages@zugschlus.de>

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Go support for Protocol Buffers - Google's data interchange format

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1.863 cast 1.3.1

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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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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# 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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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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source: https://github.com/jwt/ruby-jwt/blob/v2.2.2/LICENSE

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1.870 openorb 1.4.0
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*/

1.871 kubernetes-metrics 1.21.0

1.871.1 Available under license:

package types

import "time"

// FeatureType store features types
type FeatureType string

cost (    
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {    
    ArrayUUID string `json:"arrayUUID,omitempty"`
    ClusterID string `json:"clusterID,omitempty"`
    CustomerID string `json:"customerID"`
    CustomerName string `json:"customerName"`
    Storage int `json:"storage"`
    ValidUntil time.Time `json:"validUntil"`
    LicenceType string `json:"licenceType"`
    Features map[FeatureType]bool `json:"features"`
    Unregistered bool `json:"unregistered"`
}

// LicenceKeyContainer - stores a licence key

type LicenceKeyContainer struct {    
    Key string `json:"key"`
}
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= vendor/github.com/golang/protobuf/LICENSE 939cce1ec101726fa754e698ac871622
package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "Plugin "\%v\" , n.Plugin)
    } else {
        s += fmt.Sprintf("Option "Option "\%v" in plugin "\%v" , n.Option, n.Plugin)
    }
}
if n.Severity == unsupported {
    s += "is unsupported by this migration tool in " + n.Version + "."
} else if n.Severity == newdefault {
    s += "is added as a default in " + n.Version + "."
} else {
    s += "is " + n.Severity + " in " + n.Version + "."
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated = "deprecated" // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
                                 // the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present
                                 // in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

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# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>:<path>`\`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

## Remote to Local

Copy a remote file from a Pod to a local file.
- Local file format is `:<path>`
- Remote file format is `:<pod-name>::<path>`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>::<path>`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

---

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package storageos

import (  
    "encoding/json"
    
    "github.com/storageos/go-api/types"
)

cost (  
    // licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPIPrefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {  
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})  
    if err != nil {  
        return nil, err  
    }  
    defer resp.Body.Close()  
    licence := &types.Licence{}  
    if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {  
        return nil, err  
    }  
    return licence, nil
}

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {  
    _, err := c.do("POST", licenceAPIPrefix, doOptions{  
        data: &types.LicenceKeyContainer{Key: licenceKey},  
    })  
    return err
}
// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{ })
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name:     "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key:   "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key:   "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self = ref
    }
m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}

if Map.IsVPX() {
    am := Map.Put(&LicenseAssignmentManager{}).Reference()
    m.LicenseAssignmentManager = &am
}

return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{
        Res: &types.UpdateLicenseLabelResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:]...)
            return body
        }
    }

    return body
}
for i := range m.Licenses {
    license := &m.Licenses[i]

    if req.LicenseKey != license.LicenseKey {
        continue
    }

    body.Res = new(types.UpdateLicenseLabelResponse)

    for j := range license.Labels {
        label := &license.Labels[j]

        if label.Key == req.LabelKey {
            if req.LabelValue == ""
                license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
            else {
                label.Value = req.LabelValue
            }
            return body
        }
    }

    license.Labels = append(license.Labels, types.KeyValue{
        Key:   req.LabelKey,
        Value: req.LabelValue,
    })
    return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body
}

type LicenseAssignmentManager struct {
    mo.LicenseAssignmentManager
}

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{},
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {

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id := types.ManagedObjectReference{
    Type: "HostSystem",
    Value: req.EntityId,
}

if Map.Get(id) == nil {
    return body
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId:    req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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=tomb - support for clean goroutine termination in Go.

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= vendor/golang.org/x/xerrors/LICENSE a413d6b3884e141783f23d00d5838777
procs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.

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Portions of this software was originally based on the following:

- voluntary contributions made by Ovidiu Predescu (ovidiu@cup.hp.com) on behalf of the Apache Software Foundation and was originally developed at Hewlett Packard Company.

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1.889 logstash-filter-uuid 3.0.5

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1.890 pcre 8.39 12

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THE BASIC LIBRARY FUNCTIONS

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

Written by: Philip Hazel
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Written by: Zoltan Herczeg
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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
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Mersenne Twister
----------------

The `_random` module includes code based on a download from `http://www.math.keio.ac.jp/~matumoto/MT2002/emt19937ar.html`. The following are the verbatim comments from the original code:

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

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

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
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Sockets
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The `socket' module uses the functions, `getaddrinfo', and `getnameinfo', which are coded in separate source files from the WIDE Project, `http://www.wide.ad.jp/about/index.html'.

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UUencode and UUdecode functions

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

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

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

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1.902 debian-archive-keyring 2017.5+deb9u1

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.
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1.910 masterminds-goutils 1.1.1
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1.914 logstash-filter-cidr 3.1.3

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

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
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lib/gssapi/mechglue/g_inquire_context.c

Open Source Used In cnBR Operations Hub 22.2 10011
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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
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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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# Timers

Collections of one-shot and periodic timers, intended for use with event loops such as [async](https://github.com/socketry/async).


## Installation

Add this line to your application's Gemfile:

```ruby
```ruby
```
```

And then execute:

```
$ bundle
```

Or install it yourself as:

```
$ gem install timers
```

## Usage

Create a new timer group with `Timers::Group.new`:

```ruby
```ruby
```
require 'timers'

timers = Timers::Group.new

Schedule a proc to run after 5 seconds with `Timers::Group#after`:

```ruby
five_second_timer = timers.after(5) { puts "Take five" }
```

The `five_second_timer` variable is now bound to a Timers::Timer object. To cancel a timer, use `Timers::Timer#cancel`.

Once you've scheduled a timer, you can wait until the next timer fires with `Timers::Group#wait`:

```ruby
# Waits 5 seconds
timers.wait

# The script will now print "Take five"
```

You can schedule a block to run periodically with `Timers::Group#every`:

```ruby
every_five_seconds = timers.every(5) { puts "Another 5 seconds" }

loop { timers.wait }
```

You can also schedule a block to run immediately and periodically with `Timers::Group#now_and_every`:

```ruby
now_and_every_five_seconds = timers.now_and_every(5) { puts "Now and in another 5 seconds" }

loop { timers.wait }
```

If you'd like another method to do the waiting for you, e.g. `Kernel.select`, you can use `Timers::Group#wait_interval` to obtain the amount of time to wait. When a timeout is encountered, you can fire all pending timers with `Timers::Group#fire`:

```ruby
loop do
  interval = timers.wait_interval
  ready_readers, ready_writers = select readers, writers, nil, interval
```
if ready_readers || ready_writers
    # Handle IO
    ...
else
    # Timeout!
    timers.fire
end
end
```

You can also pause and continue individual timers, or all timers:
```
``` ruby
paused_timer = timers.every(5) { puts "I was paused" }

paused_timer.pause
10.times { timers.wait } # will not fire paused timer

paused_timer.resume
10.times { timers.wait } # will fire timer

timers.pause
10.times { timers.wait } # will not fire any timers

timers.resume
10.times { timers.wait } # will fire all timers
```  ``` ruby
```

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### Constant-time SSSE3 AES core implementation.

```
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Constant-time SSSE3 AES core implementation.
version 0.1

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1.949 tomcat-annotations-api 9.0.63

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1.951 kubernetes-model-node 5.8.0

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1.953 shadow 4.5-1ubuntu1

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1.954 prettytable 0.7.2-7.ph4

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This package was originally put together by Michael Vogt
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1.956 logstash-input-generator 3.1.0

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c
===================================================================
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
```c
@@ -73,6 +73,61 @@
    close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {
+            if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+                pam_syslog(pamh, LOG_ERR,
+                        "Unable to change UID to %d temporarily\n",
+                        pwd->pw_uid);
+                retval = PAM_SESSION_ERR;
+                goto finished;
+            }
+            if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+                goto finished;
+            if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+                goto finished;
+            if (stat(flag, &s) != 0)
+            {
+                display_file(pamh, "/etc/legal");
+                mkdir(dir, 0700);
+                f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                        S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+                if (f>=0) close(f);
+            }
+        }
+        if (asprintf(&dir, "%s/cache", pwd->pw_dir) == -1 || !dir)
+            goto finished;
+        if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+            goto finished;
+    }
+    if (stat(flag, &s) != 0)
+    {
+        display_file(pamh, "/etc/legal");
+        mkdir(dir, 0700);
+        f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+        if (f>=0) close(f);
+    }
+    finished:
+    if (pam_modutil_regain_priv(pamh, &privs)) {
+        pam_syslog(pamh, LOG_ERR,
+```

"Unable to change UID back to %d\n", privs.old_uid);
    retval = PAM_SESSION_ERR;
    
    _pam_drop(flag);
    _pam_drop(dir);
    
    _pam_drop(flag);
    _pam_drop(dir);
    
    return retval;
+
+
    /* Display the updated motd */
    display_file(pamh, motd_path);

    /* Display the legal disclaimer only if necessary */
    retval = display_legal(pamh);
    
    return retval;
}

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on Wed, 23 Sep 1998 20:29:32 +0200.

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### Jdom-contrib version 1.1.3
The JTS tests module contains source from JDOM Contrib 1.1.3 which is available under the Jdom License [1]. The two files are LineNumberElement.java and LineNumberSAXHandler.java.

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### GeoTools

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src/test/org/apache/commons/codec/language/DoubleMetaphoneTest.java contains
test data from http://aspell.sourceforge.net/test/batch0.tab.

---

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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
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analysis/common/src/resources/org/apache/lucene/analysis/ro/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/hi/stopwords.txt,
analysis/common/src/resources/org/apache/lucene/analysis/bn/stopwords.txt

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Ljiljana Dolamic. These files reside in:
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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/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
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 https://project.carrot2.org/license.html.

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Files:
man/setproctitle.3

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man/expand_number.3
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man/flopen.3
man/getpeereid.3
man/pidfile.3
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src/arc4random.c
src/arc4random_openbsd.h
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1.980 rocksdb 5.18.3

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Local-Date: Fri, 06 Jun 2003 13:18:52 -0400
Date: Fri, 6 Jun 2003 10:18:52 -0700
From: Juan Gomez <juang@us.ibm.com>
To: Stephen Frost <sfrost@debian.org>
X-Mailer: Lotus Notes Release 5.0.2a (Intl) 23 November 1999
Subject: Re: Juan C. Gomez license in OpenLDAP Source

Stephen,

"There is no restriction on modifications and derived works" on the work I did for the openldap server as long as this is consistent with the openldap license. Please forward this email to Kurt so he does the appropriate changes to the files to reflect this.

Regards, Juan
MA

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Local-Date: Thu, 05 Jun 2003 16:53:32 -0400
Date: Thu, 5 Jun 2003 16:53:32 -0400 (EDT)
From: Mark Adamson <adamson@andrew.cmu.edu>
To: Stephen Frost <sfrost@debian.org>
Subject: Re: Mark Adamson license in OpenLDAP source

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---

* To: Stephen Frost <sfrost@snowman.net>
* Subject: Re: OpenLDAP Licenseing issues
* From: "Kurt D. Zeilenga" <Kurt@OpenLDAP.org>
* Date: Wed, 28 May 2003 10:55:44 -0700
* Cc: Steve Langasek <vorlon@netexpress.net>, debian-legal@lists.debian.org, openldap-devel@OpenLDAP.org
* In-reply-to: <20030528162613.GB8524@ns.snowman.net>
* Message-id: <5.2.0.9.0.20030528094229.02924780@127.0.0.1>
* Old-return-path: <Kurt@OpenLDAP.org>

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1.993 util-linux 2.35.2-r2

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  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASElementDeclaration.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASEntityDeclaration.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASNamedObjectMap.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASDataType.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASContentModel.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASWriter.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DocumentEditAS.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/ASObjectList.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASBuilder.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/DOMASException.java
  */opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom3/as/NodeEditAS.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/datatypes/package.html
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jar/org/w3c/dom/html/HTMLDOMImplementation.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/1257218116_1642790294.82/0/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>
* 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
<code>LSParser</code> 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><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.
*/

Found in path(s):
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/CoreDOMImplementationImpl.java
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  jar/org/apache/xerces/dom/DOMImplementationListImpl.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/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
  jar/org/apache/xerces/impl/xs/XSConstraints.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDElementTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/html/dom/HTMLFrameElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/XMLEntityDescriptionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/util/ShadowedSymbolTable.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/ObjectListImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLTimerElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLOptgroupElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/xni/parser/XMLInputSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/dom/WMLImgElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/dom/DeferredCDATASectionImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDAbstractIDConstraintTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/dv/xs/AnySimpleDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/StringList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv(xs/AnySimpleDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/StringList.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/wml/WMLTimerElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/CaseInsensitiveMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources
jar/org/apache/xerces/xni/parser/XMLDocumentSource.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/WMLBElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/parsers/SAXParser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/datatypes/XSDecimal.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/DOMConfigurationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLTableColElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLTrElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMUniOp.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/grammars/XMLGrammarLoader.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/validation/ConfigurableValidationState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/IndentPrinter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/ElementState.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/ObjectFactory.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/PSVIDOMImplementationImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dtd/models/DFAContentModel.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/dom/AttributeMap.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/stax/events/EndDocumentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLPEElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xs/datatypes/XSFloat.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/dtd/StringDatatypeValidator.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/models/XSCMRRepeatingLeaf.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/PSVIAttrNSImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/XMLDocumentFragmentScannerImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/dv/ValidationContext.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/grammars/Grammar.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/wml/dom/WMLAccessElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xpath/regex/Match.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/impl/xs/XSMessageFormatter.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xml/serialize/TextSerializer.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/stax/events/LocalStorageImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xinclude/XIncludeHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/utils/EntityResolverWrapper.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/dom/NodeListCache.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLTableElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLHRElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/xerces/xni/utils/DeferredCommentImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
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jar/org/apache/html/dom/HTMLTableElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
jar/org/apache/html/dom/HTMLHRElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/opti/NamedNodeMapImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLBuilder.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/jaxp/validation/WeakReferenceXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/xs/datatypes/XSQName.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/dom/NodeIteratorImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/util/DefaultErrorHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xpath/regex/BMPattern.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/parsers/DTDConfiguration.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/jaxp/validation/SimpleXMLSchema.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLLegendElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/xs/YearMonthDurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/traversers/XSDWildcardTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLHeadingElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/XSFacets.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/ElementPSVI.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/wml/WMLRefreshElement.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/EntityIdentifier.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/html/dom/HTMLDirectoryElementImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/xs/traversers/XSDTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/dv/EntityImpl.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/impl/io/MalformedByteSequenceException.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources.jar/org/apache/xerces/jaxp/UnparsedEntityHandler.java
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* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearDV.java
* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDKeyrefTraverser.java
* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DateTimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/DurationDV.java
* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/YearMonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSAttributeChecker.java
* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/MonthDV.java
* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/TimeDV.java
* /opt/cola/permits/1257218116_1642790294.82/o/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/XSSimpleTypeDecl.java
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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv(xs/DayDV.java
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/XMLSchemaValidator.java

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* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSchemaMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xpath/regex/message.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DOMMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XPointerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/DatatypeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/SAXMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XIncludeMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/XMLSerializerMessages.properties
* /opt/cola/permits/1257218116_1642790294.82/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/msg/JAXPValidationMessages.properties

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* org.eclipse.jetty.orbit:javax.security.auth.message
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* org.eclipse.jetty.orbit:javax.mail.glassfish

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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

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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.apache.taglibs:taglibs-standard-impl
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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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Ackeret, Matt
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1.1014 selinux 2.7-2build2
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http://userspace.selinuxproject.org/trac/wiki/Releases

This package was debianized by Colin Walters <walters@debian.org> on
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1.1015 geo-ip 2.9.0
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1.1016 elasticsearch-cli 8.2.0

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1.1017 iputils 20161105-1

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1.1018 jopt-simple 4.6

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* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/BuiltinHelpFormatter.java
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* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/MultipleArgumentsForOptionException.java
* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/UnconfiguredOptionException.java
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* /opt/cola/permits/1257321103_1642800604.32/0/jopt-simple-4-6-sources-jar/joptsimple/OptionParser.java
1.1019 alpine-keys 2.4-r1

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1.1020 xz 5.2.2-1.3ubuntu0.1

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1.1021 effective-tld-names 0.5.1-1
1.1021.1 Available under license:

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1.1022 metrics-logback 3.1.5
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Manifest-Version: 1.0
Bnd-LastModified: 1496426839660
Build-Jdk: 1.8.0_131
Built-By: artem
Bundle-Description: An instrumented appender for Logback.
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Integration for Logback
Bundle-SymbolicName: io.dropwizard.metrics.logback
Bundle-Version: 3.1.5
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics.logback;uses:"ch.qos.logback.classic.spi,ch.qos.logback.classic,ch.qos.logback.core,com.codahale.metrics" ;version="3.1.5"
Implementation-Title: Metrics Integration for Logback
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 3.1.5
Import-Package: ch.qos.logback.classic;version="[1.1,2)";ch.qos.logback.classic.spi;version="[1.1,2)";ch.qos.logback.core;version="[1.1,2)";com.codahale.metrics;version="[3.1,4)"
Tool: Bnd-1.50.0

Found in path(s):
* /opt/cola/permits/1307754595_1649953617.22/0/metrics-logback-3-1-5-jar/META-INF/MANIFEST.MF

1.1023 logstash-input-graphite 3.0.6
1.1023.1 Available under license:
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1.1024 aopalliance-repackaged 2.6.1

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* Added generation of field number constants.
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* Detect whether zlib is new enough in configure script.
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* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
* Clean up some Java warnings.
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* Fixed minor IBM xIC compiler build issues
* Added atomicops for AIX (POWER)

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localtime.go, localtime_test.go:

Originals:
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil.go
https://raw.githubusercontent.com/googleapis/google-cloud-go/ed46f5086358513cf8c25f8e3f022cb838a49d66/civil/civil_test.go

Changes:
* Renamed files from civil* to localtime*.
* Package changed from civil to toml.
* 'Local' prefix added to all structs.

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1.1038 expat 2.2.5 3ubuntu0.7

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1.1039 pbkdf2 1.3

1.1039.1 Available under license:
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Python PKCS#5 v2.0 PBKDF2 Module
---------------------------------------
This module implements the password-based key derivation function, PBKDF2, specified in `RSA PKCS#5 v2.0 <http://www.rsa.com/rsalabs/node.asp?id=2127>`_.

Example PBKDF2 usage
=====================
```
from pbkdf2 import PBKDF2
from Crypto.Cipher import AES
import os

salt = os.urandom(8)  # 64-bit salt
key = PBKDF2("This passphrase is a secret.", salt).read(32) # 256-bit key
iv = os.urandom(16)   # 128-bit IV
cipher = AES.new(key, AES.MODE_CBC, iv)
# ...
```

Example crypt() usage
=======================
```
from pbkdf2 import crypt
pwhash = crypt("secret")
alleged_pw = raw_input("Enter password: ")
if pwhash == crypt(alleged_pw, pwhash):
    print "Password good"
else:
    print "Invalid password"
```

Example crypt() output
======================
```
>>> from pbkdf2 import crypt
>>> crypt("secret")
'SpS5k2S5hi46RA73SaGBpPoP8gZLaHHeS0QzJ5Fb1Zv4B6sQVs'
```
>>> crypt("secret", "XXXXXXXX")
'b$p5k2$XXXXXXXX$L9mVdq7upotdvtGvXTDTez3Flu3z0uG'
>>> crypt("secret", "XXXXXXXX", 400) # 400 iterations (the default for crypt)
'b$p5k2$XXXXXXXX$L9mVdq7upotdvtGvXTDTez3Flu3z0uG'
>>> crypt("spam", iterations=400)
'b$p5k2$3e8$H0NX9mT/Swk/sE8vv6OMKuMaqazCJYDSUlhWY9YB2J'

Resources
==========

Homepage
https://www.dlitz.net/software/python-pbkdf2/

Source Code
https://github.com/dlitz/python-pbkdf2/

PyPI package name
`pbkdf2 <http://pypi.python.org/pypi/pbkdf2>`_

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=======
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Found in path(s):
* /opt/cola/permits/1159368665_1620120031.65/0/pbkdf2-1-3-1-tar-gz/pbkdf2-1.3/README.txt
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Found in path(s):
* /opt/cola/permits/1159368665_1620120031.65/0/pbkdf2-1-3-1-tar-gz/pbkdf2-1.3/pbkdf2.py

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Metadata-Version: 1.0
Name: pbkdf2
Version: 1.3
Summary: PKCS#5 v2.0 PBKDF2 Module
Home-page: http://www.dlitz.net/software/python-pbkdf2/
Author: Dwayne C. Litzenberger
Author-email: dlitz@dlitz.net
License: UNKNOWN
Description: This module implements the password-based key derivation function, PBKDF2, specified in RSA
PKCS#5 v2.0.

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: MIT License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Topic :: Security :: Cryptography

Found in path(s):
* /opt/cola/permits/1159368665_1620120031.65/0/pbkdf2-1-3-1-tar-gz/pbkdf2-1.3/pbkdf2.egg-info/PKG-INFO
* /opt/cola/permits/1159368665_1620120031.65/0/pbkdf2-1-3-1-tar-gz/pbkdf2-1.3/PKG-INFO

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Found in path(s):
* /opt/cola/permits/1159368665_1620120031.65/0/pbkdf2-1-3-1-tar-gz/pbkdf2-1.3/setup.py

1.1040 gems 1.2.0
**1.1040.1 Available under license:**

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**1.1041 tdb 1.44.1**

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Version 3, 29 June 2007

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1.1042 swaggo-swag 1.7.1

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1.1044 sarama 1.20.0

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1.1045 x-text 0.3.3

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1.1046 Iru-redux 1.1.0-2.ph4

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1.1050 elasticsearch-api 7.9.0

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---
teardown:
- do:
  license.post:
acknowledge: true
body: |

"licenses": ["uid":3aa62ffe-36e1-4fad-bfde-9df8301eb22","type":"trial","issue_date_in_millis":1523456691721,"max_nodes":5,"issued_to":"customer","issuance_type":"elasticsearch","signature":null,"start_date_in_millis":-1}

---

"Installing and getting license works":

```ruby
## current license version
- do:
  license.post:
    acknowledge: true
    body: |
      "licenses": [{"uid":894371dc-9749-4997-93cb-80e2e37f6a8","type":true,"issue_date_in_millis":1411948800000,"max_nodes":1,"issued_to":null,"issuance_type":null,"signature":null,"start_date_in_millis":-1}

- match: { license_status:  "valid" }
- do:
  license.get: {}

## the rest API defaults to a v4 license output with 11 attributes
- length: { license: 11 }

## bwc for licenses format
- do:
  license.post:
    acknowledge: true
    body: |
      "licenses": [{"uid":893361dc-9749-4997-93cb-80e2e37f6a8","type":true,"issue_date_in_millis":1411948800000,"max_nodes":1,"issued_to":null,"issuance_type":null,"signature":null,"start_date_in_millis":-1}]
```

- match: { license_status:  "valid" }
- do:
  license.get: {}
match: { license_status: "valid" }

do:
  license.get: {}

length: { license: 11 }

## license version: 1.x

do:
  license.post: 
    acknowledge: true 
    body: |
      {"licenses":[{"uid":"893361dc-9479-4099-93cbb082e3d7fa4a8","type":"subscription","subscription_type":"gold","issue_date_in_millis":1411948800000,"feature":"shield","expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":"issued_to","issuer":"issuer","signature":"AAAAAwAAAA2T3vqdBBetKQaBxgipAAABmc9Z0NhjZDBGYnVyRXpCOW5BbFj3DaxOWpBtVoMVZwUrzVkJ1PsmdxaxZdW51MhIHTHNo1N1N2MXMVFrk4d3J3TEx3R3RZ0pzU3lobWKJZnQsEFvaOpTBHBkWkprZWQSQ9iNnRQKw15lplN0ldAlZCSOS5MXRGN1IIzLpYcVVTuTnFrc2EzdjhZmZrdFQrN3JQeGwb0U0MXZ0dDHSERiTZVLOHzSDByWnpoZEpZHBEZu1TvBnRENNX0SwwfWjzlaODdz5mEuzUJiNkWtNWGM5TuHqV2plaU04Q1J0Uml4MNXuLOpS0EOhqaVHzFeTFoM1Q0RnJXSG55S1k2K055c28zSmRnVkF1b2JSQkFt2V2UXUmVHNDZ2R3o2V 
E1qhbVQNSQ2khOHN5bUEr1ZINlKwZSvmZlWIEaSuU9wTTJENDVv1T1NCYklaeUYyK2rFrWR9xoa06dldMbmMzSGrQc3FWOTgzzZ3UcXMVqkt2RUwMfJnnzlL2dbDRWuzh6UG5pedENGFWRreXNNKNE9PQAQAABQ7pGFGYfawflm9zzT80LvcLHj1y1tv2uSzCQWKdXXhrwSy4WvAh2uA+k+PEiQ7aEpW5erLsyJ5KLA6OZJDaF7r+vmj OPrLtt+4i5j4Mn7ybMzOPHXB6c6LETTE3+ppGZPyOmwsDKZSRUegTc2iR2R6z+mdnGrh0YMYb0y0S8KVWwhudiUDHw41MK7eP66qz33n349Yd9gf9xfA04ggEBPbntTDBDBQ2AjauYssas0M5eg99DDRayw1KamWYrrara8PGXG+2YjiUeQHmCDlxc9wECE7/knPs5b3I3ZoXQR3fyXhjcxXNHEisbqLmRCa1pLx71f+KPYMa2ZYL/amu4 P"}}]}

match: { license_status: "valid" }

do:
  license.get: {}
- length: { license: 11 }

## multiple licenses version: 1.x

- do:
  - license.post:
    - acknowledge: true
    - body: |
      
      ```
      "licenses": [{
        "uid": "893361dc-9749-4997-93cb-8023e37fa4a8",
        "type": "internal",
        "subscription_type": "none",
        "issue_date_in_millis": 1440892799999,
        "max_nodes": 1,
        "issued_to": "issuedTo",
        "issuer": "issuer",
        "signature": "A AAAAQQAAAAA04Q4ky3rFyyWLFkytEAAABmC9Zv09jZDBGYnYrXpCW5Bh3fJDAXowWP5bTVoMVZwUzRxVKh1PsnxkaxZdYS5MhiTHNOsINN2XMMvRFk4d3JTZEz9x33RRrZpU3ObwUJK9ZnQsE7F9a0ppTHkW
kprZWSQi9NiNmRQ9ne1SlpLN0ldA6ZCS095MXRGN1UIZlpYcVVTnFrcTE2dzhJZmZrdFqN3JQeGxwboU0
MXZ0dDJHESFiZTVLOHvZnSDbyWnpoZEVhZBEZjUrTVBxRENNSNvSnWvJyZlalODdzvMzEuzUNwKtNW
GM5TUhQ2PlaUQ1OUM4NXuLoOpOEhQaVB2a2hmU9QVzhFeTfoMIQrJXSGS53MWk2K055c28z
SmnRnVKh1bJSQgFLV2XUmVHNDZ2R3o2oVE1q6VNQ52IxOHN5bUERZINWkZ5VmZlIWtEuSUw9yTJJEND
VtT1NCyklacUYyK2FwRX9xao6dddMBm3mZGQc3FWOTg9Z3ZUCXmVqKt2RUwMFm3zLvL2d2dDRuUz
h6U5pdeENGWFréXNKnKE9pQAAAABQxVbMVbMm4eR4T4QMjiaHxQj4LPQ04f1M79UXXkoDlGeH+5j5
RHx80oTrrPSFL1IEd+h+PIxX307Vo+PNDsOxwrVwoYZeBYBA0AO3ny9vQga+52yMhMxU4r9xbeCSNpMh
GojgOIPU2WgiopVuCimol+Gk8VtKbP1wVwFzfojOOnpgPcx3WYpfKeAUUOyWUYFiFBae4bnz84IF+xwLKB
qYK6aHF2F5CtBdU1Ruhemc9+1EFPoIEutCouv9c+VNNJ4oicV4xRgRAGs2h9PONH8Z0NQGhYjGbhsoCux
DmlJdsvYxqfMu3n/r7/jdsESJcjlASrLdOSu6H"}, {
  "uid": "893361dc-9749-4997-93cb-8023e37fa4a8",
  "type": "internal",
  "subscription_type": "none",
  "issue_date_in_millis": 1440892799999,
  "max_nodes": 1,
  "issued_to": "issuedTo",
  "issuer": "issuer",
  "signature": "A AAAAQQAAAAA04Q4ky3rFyyWLFkytEAAABmC9Zv09jZDBGYnYrXpCW5Bh3fJDAXowWP5bTVoMVZwUzRxVKh1PsnxkaxZdYS5MhiTHNOsINN2XMMvRFk4d3JTZEz9x33RRrZpU3ObwUJK9ZnQsE7F9a0ppTHkW
kprZWSQi9NiNmRQ9ne1SlpLN0ldA6ZCS095MXRGN1UIZlpYcVVTnFrcTE2dzhJZmZrdFqN3JQeGxwboU0
MXZ0dDJHESFiZTVLOHvZnSDbyWnpoZEVhZBEZjUrTVBxRENNSNvSnWvJyZlalODdzvMzEuzUNwKtNW
GM5TUhQ2PlaUQ1OUM4NXuLoOpOEhQaVB2a2hmU9QVzhFeTfoMIQrJXSGS53MWk2K055c28z
SmnRnVKh1bJSQgFLV2XUmVHNDZ2R3o2oVE1q6VNQ52IxOHN5bUERZINWkZ5VmZlIWtEuSUw9yTJJEND
VtT1NCyklacUYyK2FwRX9xao6dddMBm3mZGQc3FWOTg9Z3ZUCXmVqKt2RUwMFm3zLvL2d2dDRuUz
h6U5pdeENGWFréXNKnKE9pQAAAABQxVbMVbMm4eR4T4QMjiaHxQj4LPQ04f1M79UXXkoDlGeH+5j5
RHx80oTrrPSFL1IEd+h+PIxX307Vo+PNDsOxwrVwoYZeBYBA0AO3ny9vQga+52yMhMxU4r9xbeCSNpMh
GojgOIPU2WgiopVuCimol+Gk8VtKbP1wVwFzfojOOnpgPcx3WYpfKeAUUOyWUYFiFBae4bnz84IF+xwLKB
qYK6aHF2F5CtBdU1Ruhemc9+1EFPoIEutCouv9c+VNNJ4oicV4xRgRAGs2h9PONH8Z0NQGhYjGbhsoCux
DmlJdsvYxqfMu3n/r7/jdsESJcjlASrLdOSu6H"},
``` 

- match: { license_status: "valid" }

- do:
  - license.get: { }

- length: { license: 11 }

---

"Should revert back to basic license after license deletion": 

- do:
  - license.delete: { }
- match: { acknowledged: true }

- do:
  license.get: {}

- match: { license.type: "basic" }
- set: { license.uid: id }

- do: # delete an existing basic license is a no-op
  license.delete: {}
- do:
  license.get: {}
- match: { license.uid: id }

---

"Should install a feature type license":

# VERSION_NO_FEATURE_TYPE license version
- do:
  license.post:
    acknowledge: true
    body: |
    { "license": { "uid":"893361dc-9749-4997-93cb-802e3d7fa4a8","type":"gold","issue_date_in_millis":1411948800000, "expiry_date_in_millis":1914278399999,"max_nodes":1,"issued_to":null,"issuer":null,"signature":null,"data":null, "url":null } }
- match: { license_status: "valid" }
- do: 
  license.get: {} 
- length: { license: 11 } 
---

"Cannot start basic":

Open Source Used In cnBR Operations Hub 22.2 10944
- do:
  catch: bad_request
  license.post:
    acknowledge: true
    body: |
      { "license": { "uid": "893361dc-9749-4997-93cb-802e3d7fa4a8", "type": "basic", "issue_date_in_millis": 1411948800000, "expiry_date_in_millis": 1914278399999, "max_nodes": 1, "issued_to": "issuedTo", "issuer": "issuer", "signature": "AAAAAgAAAA0lKPZ0a7aZquUlhCmAAAABmC9ZNo8hj2DZBGYnVYxPCAOWS5b3fjZDAxOWpSbTV0MVZwUzVkJP5mxaZdW5IhlTHNoNIN2MXMvRFk4d3JTFah23RZ0pzU3lobWJKZQvSEFva0ppTHBkWkpZWSQ9iNmRQNkw1SlpLN0lDalZCS095MXRN11lZlpYCvVTTtFrcTE2dzhJZmZrdFQrN3JQeGwxb0U0MXZ0dDJSERiZTVLOHHzSDByWnpoZEpHzHBEzJuTVBxREMNSXNsWUljZIlaODdzVnEzUjNiWktNWGM5TUqV2p2oUo4Q1OUm4MXNuLOpS0EHbQaVB2azhmUk9QVzhFeTFoM1Q0RnJXSG53MWk2K055c28z5SmRvKflb2JSQkFVL2VXUmVHDNZ2R3o2VE1qBVNQS2xOHNN5bEUrZiINWkZSVmZIWtEuaSU9wTTJENDvTv1NCYklacUYyK2FwRW9xa0k6dMbMzSGiQc3FWOyFgZ3ZUcXMvQkt2RUZwMFJnZzlvL2d2bDRWUzh6UG5dpdENGWFReXNKNkE9PQAAAQAALuQ4S3IG6SzoelcXVr6Z4CIXORDvYQ+w/Pceey0XdujTsIAOj+k+svNgo6wauc7Usiw01esHu4lb5IgkpKy7RRCbh5byj/z2ubu2qM3qoppBBQyD7VQV1qG6seUMJwJla5Avvm9r41YPSPecri3bKK2eI6jK6N8ibCvntYXkYGCJxVWNePFd6erbY0dzcXVZ7a33mubXZj7Tdf8/YwQyE00PqMclfTVPY3hKpAeHF6aJbqKYbqZuER3EWJX7ZvLV1dNdNg8aXRN7YrKqCyWgptYQpfVtD7yE4j5muAEoler" }}

- match: { error.root_cause.0.reason: 'Installing basic licenses is no longer allowed. Use the POST /_license/start_basic API to install a basic license that does not expire.' }

---

"Should fail gracefully when body content is not provided":

- do:
  catch: bad_request
  license.post:
    acknowledge: true

- match: { error.root_cause.0.reason: 'The license must be provided in the request body' }

---

"Current license is trial means not eligible to start trial":

- do:
  license.get_trial_status: {}

- match: { eligible_to_start_trial: false }

- do:
  license.post_start_basic:
    acknowledge: true

- match: { basic_was_started: true }

- do:
  license.get_trial_status: {}
- match: { eligible_to_start_trial: false }

- do:
  
  catch: forbidden
  
  license.post_start_trial:
  
  acknowledge: true

- match: { trial_was_started: false }
- match: { error_message: "Operation failed: Trial was already activated." }

---

"Trial license cannot be basic":
- do:
  
  catch: bad_request
  
  license.post_start_trial:
  
  type: "basic"
  
  acknowledge: true

---

"Can start basic license if do not already have basic":
- do:
  
  license.get_basic_status: {}

- match: { eligible_to_start_basic: true }

- do:
  
  license.post_start_basic:
  
  acknowledge: true

- match: { basic_was_started: true }
- match: { acknowledged: true }

- do:
  
  license.get_basic_status: {}

- match: { eligible_to_start_basic: false }

- do:
  
  catch: forbidden
  
  license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: true }
- match: { error_message: "Operation failed: Current license is basic." }

---

"Must acknowledge to start basic":
- do:
  
  license.post_start_basic: {}

- match: { basic_was_started: false }
- match: { acknowledged: false }
- match: { error_message: "Operation failed: Needs acknowledgement." }

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---

"No features should be used just by starting up with default configuration":

- do:
  license.get_feature_usage: {}

- length: { features: 0 }

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- do:
  license.post:
    acknowledge: true
    body: |
      {
        "licenses": [
          {
            "uid": "3aa62ffe-36e1-4fad-bfdc-9df8301eb22", "type": "trial", "issue_date_in_millis": 1523456691721, "expiry_date_in_millis": 1838816691721, "max_nodes": 5, "issued_to": "customer", "issuer": "elasticsearch", "signature": "AAAABAAAAA2kWNcuc+DT0lrmYZKA AAAIAo5/x6hrsGh1GqqrJmy4qgmEC7gK0U4zQ6q5ZEMhm4jAAABAEEn6fG9y2VxKBU2T3D5hffh56kzOQOD COdhr0y2d17Zs1JMZRq07ZywPCWNS1aR33GhfHkTER0ysML0xMH/gXavhyRvMBndJj0UBKzuwpTawSlnx

```
## current license version
- do:
  license.post:
    acknowledge: true
    body: |
      "license":{"uid":"6e57906b-a8d1-4c1f-acb7-73a16edc3934","type":"enterprise","issue_date_in_millis":1523456691721,"expiry_date_in_millis":1838816691721,"max_nodes":null,"max_resource_units":50,"issued_to":"rest-test","issuer":"elasticsearch","signature":"AAAABQAAAA0sKPjd9T6DltbXVJKAAAALAo5/x6hrsGh1GqqrJmy4qgmEC7gKr0UzQ6q5ZEMhm4jAAABAKFCHrix7w/xPG14+wdhld1RmpHDMxmHFL1xeu133AhrlmOUYYZ3oeR6GZh8C0Q9hQz+63lgeJepW1vwDSgkOvXWHlrJn7YScrzZbism0ZHw7Sw9DO7vePomVBo/Hm9+eX0pV4/cFQNMmbFaX11tqJZYBEOosNASVAFL7A1ZcVoB2evweGU9pUQYvFvmyzzySf99miDo3NH0XYdowingEdtoNgFlnmpq3+k0CP7omnRZ1h9jhsDOi30RX/DTDXQKW+XoREnOHC0OJFxwip/c1qaQAOpq1H6f+P20ZGr2sIPU970V0E9kUl5h+E+jgjVW3LwGheOXsUOd1B8Mp0=","start_date_in_millis":-1}}

- match: { license_status: "valid" }

- do:
  license.get: {}

## a v4 (7.X compatible) license object has 11 attributes
- length: { license: 11 }

## by default the enterprise license is "platinum", and return "max_nodes"
- match: { license.type: "platinum" }
- match: { license.max_nodes: 50 }

## Check the xpack info API as well
- do:
  xpack.info: {}
- match: { license.type: "platinum" }
- match: { license.max_nodes: "platinum" }

## Check the opt-in v5 license type
- do:
  license.get:
    accept_enterprise: true

## a v5 license object has 12 attributes
- length: { license: 12 }
## opt-in to return real enterprise type
- match: { license.type: "enterprise" }
- match: { license.max_resource_units: 50 }
- match: { license.max_nodes: null }

## Check the xpack info API as well
- do:
  xpack.info:
    accept_enterprise: true
- match: { license.type: "enterprise" }
- match: { license.mode: "enterprise" }

- do:
  license.get:
    accept_enterprise: false

## a v4 license object has 11 attributes
- length: { license: 11 }

## opt-out of real enterprise type
- match: { license.type: "platinum" }
- match: { license.max_nodes: 50 }

## Check the xpack info API as well
- do:
  xpack.info:
    accept_enterprise: false
- match: { license.type: "platinum" }
- match: { license.mode: "platinum" }

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```java
=== Delete License

```

The license can be deleted using the `deleteLicense()` method:

```java
--------------------------------------------------
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute]
--------------------------------------------------

=== Response

The returned `DeleteLicenseResponse` contains the `acknowledged` flag, which
returns true if the request was processed by all nodes.

```java
--------------------------------------------------
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-response]
--------------------------------------------------

<1> Check the acknowledge flag. It should be true if license deletion is acknowledged.

```java
--------------------------------------------------
include-tagged::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute-async]
--------------------------------------------------

This request can be executed asynchronously:
<1> The `DeleteLicenseRequest` to execute and the `ActionListener` to use when the execution completes.

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `DeleteLicenseResponse` looks like:

```java
["source", "java", subs="attributes,callouts,macros"]
--------------------------------------------------
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[delete-license-execute-listener]
--------------------------------------------------

<1> Called when the execution is successfully completed. The response is provided as an argument
<2> Called in case of failure. The raised exception is provided as an argument

Nimbus OAuth 2.0 SDK with OpenID Connect extensions

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   analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
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===========================================================================

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mecab-ipadic-2.7.0-20070801

which can be obtained from

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mecab-ko-dic-2.0.3-20170922

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https://bitbucket.org/eunjeon/mecab-ko-dic/downloads/mecab-ko-dic-2.0.3-20170922.tar.gz

[role="xpack"]
[testenv="basic"]
[[delete-license]]
=== Delete license API
++++
<titleabbrev>Delete license</titleabbrev>
++++

This API enables you to delete licensing information.

[discrete]
==== Request

`DELETE /_license`

[discrete]
==== Description

When your license expires, {xpack} operates in a degraded mode. For more information, see
[kibana-ref]/managing-licenses.html#license-expiration[License expiration].

[discrete]
==== Authorization
You must have `manage` cluster privileges to use this API.
For more information, see
<<security-privileges>>.

[discrete]
==== Examples

The following example queries the info API:

[source,console]
DELETE /_license

// TEST[skip:license testing issues]

When the license is successfully deleted, the API returns the following response:
[source,js]
{ "acknowledged": true }

// NOTCONSOLE
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[role="xpack"]
[testenv="basic"]
[[get-license]]

=== Get license API
++++
<titleabbrev>Get license</titleabbrev>
++++

This API enables you to retrieve licensing information.

[discrete]
==== Request

`GET /_license`

[discrete]
==== Description

This API returns information about the type of license, when it was issued, and when it expires, for example.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

[discrete]
==== Query Parameters

`local`: (boolean) Specifies whether to retrieve local information. The default value is 'false', which means the information is retrieved from the master node.

[discrete]
==== Authorization
You must have `monitor` cluster privileges to use this API. For more information, see <<security-privileges>>.

[discrete]

==== Examples

The following example provides information about a trial license:

[source,console]

--------------------------------------------------
GET /_license
--------------------------------------------------

[source,console-result]

--------------------------------------------------
{
    "license": {
        "status": "active",
        "uid": "cbff45e7-c553-41f7-ae4f-9205eabd80xx",
        "type": "trial",
        "issue_date": "2018-10-20T22:05:12.332Z",
        "issue_date_in_millis": 1540073112332,
        "expiry_date": "2018-11-19T22:05:12.332Z",
        "expiry_date_in_millis": 1542665112332,
        "max_nodes": 1000,
        "issued_to": "test",
        "issuer": "elasticsearch",
        "start_date_in_millis": -1
    }
}

// TESTRESPONSE[s/"cbff45e7-c553-41f7-ae4f-9205eabd80xx"/$body.license.uid/]
// TESTRESPONSE[s/"basic"/$body.license.type/]
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***The art of simplicity is a puzzle of complexity.***

## Overview ##

[YAML](http://yaml.org) is a data serialization format designed for human readability and interaction with scripting languages.

SnakeYAML is a YAML processor for the Java Virtual Machine.

## SnakeYAML features ##

* a **complete** [YAML 1.1 processor](http://yaml.org/spec/1.1/current.html). In particular, SnakeYAML can parse all examples from the specification.
* Unicode support including UTF-8/UTF-16 input/output.
* high-level API for serializing and deserializing native Java objects.
* support for all types from the [YAML types repository](http://yaml.org/type/index.html).
* relatively sensible error messages.

## Info ##

* [Changes](https://bitbucket.org/asomov/snakeyaml/wiki/Changes)
* [Documentation](https://bitbucket.org/asomov/snakeyaml/wiki/Documentation)

## Contribute ##

* Mercurial DVCS is used to dance with the [source code](https://bitbucket.org/asomov/snakeyaml/src).
* If you find a bug in SnakeYAML, please [file a bug report](https://bitbucket.org/asomov/snakeyaml/issues?status=new&status=open).
* You may discuss SnakeYAML at [the mailing list](http://groups.google.com/group/snakeyaml-core).

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OF THE POSSIBILITY OF SUCH DAMAGE.
Updates the license for your {es} cluster.

If {es} {security-features} are enabled, you need `manage` cluster privileges to install the license.

If {es} {security-features} are enabled and you are installing a gold or higher license, you must enable TLS on the transport networking layer before you install the license. See <<configuring-tls>>.

You can update your license at runtime without shutting down your nodes. License updates take effect immediately. If the license you are installing does not support all of the features that were available with your previous license, however, you are notified in the response. You must then re-submit the API request with the `acknowledge` parameter set to `true`.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.

`acknowledge`:
(Optional, boolean)
Specifies whether you acknowledge the license changes. The default value is `false`.

For more information about the different types of licenses, see https://www.elastic.co/subscriptions.
`licenses`:
(Required, array)
A sequence of one or more JSON documents containing the license information.

The following example updates to a basic license:

```
PUT _license
{
  "licenses": [
    {
      "uid": "893361dc-9749-4997-93cb-802e3d7fa4xx",
      "type": "basic",
      "issue_date_in_millis": 1411948800000,
      "expiry_date_in_millis": 1914278399999,
      "max_nodes": 1,
      "issued_to": "issuedTo",
      "issuer": "issuer",
      "signature": "xx"
    }
  ]
}
```

// TEST[skip:license testing issues]

NOTE: These values are invalid; you must substitute the appropriate content from your license file.

You can also install your license file using a `curl` command. Be sure to add `@` before the license file path to instruct curl to treat it as an input file.

```shell
curl -XPUT -u <user> 'http://<host>:<port>/_license' -H "Content-Type: application/json" -d @license.json
```

// NOTCONSOLE

On Windows, use the following command:

```shell
Invoke-WebRequest -uri http://<host>:<port>/_license -Credential elastic -Method Put -ContentType
```
In these examples,

* `<user>` is a user ID with the appropriate authority.
* `<host>` is the hostname of any node in the `{es}` cluster (`localhost` if executing locally)
* `<port>` is the http port (defaults to `9200`)
* `license.json` is the license JSON file

NOTE: If your `{es}` node has SSL enabled on the HTTP interface, you must start your URL with `https://`

If you previously had a license with more features than the basic license, you receive the following response:

```javascript
{
  "acknowledged": false,
  "license_status": "valid",
  "acknowledge": {
    "message": "This license update requires acknowledgement. To acknowledge the license, please read the following messages and update the license again, this time with the "acknowledge=true" parameter:"",
    "watcher": [
      "Watcher will be disabled"
    ],
    "logstash": [
      "Logstash will no longer poll for centrally-managed pipelines"
    ],
    "security": [
      "The following X-Pack security functionality will be disabled: ..."]
  }
}
```

To complete the update, you must re-submit the API request and set the `acknowledge` parameter to `true`. For example:

```bash
PUT _license?acknowledge=true
{
  "licenses": [
    {
      "uid":"893361dc-9749-4997-93cb-802e3d7fa4xx",
```
"type":"basic",
"issue_date_in_millis":1411948800000,
"expiry_date_in_millis":1914278399999,
"max_nodes":1,
"issued_to":"issuedTo",
"issuer":"issuer",
"signature":"xx"
}
}
}

// TEST[skip:license testing issues]

Alternatively:

[source,sh]

curl -XPUT -u elastic 'http://<host>:<port>/_license?acknowledge=true' -H "Content-Type: application/json" -d @license.json

// NOTCONSOLE

For more information about the features that are disabled when your license expires, see
{kibana-ref}/managing-licenses.html#license-expiration[License expiration].

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`Get License`

The license can be added or updated using the `getLicense()` method:

```java
#include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-execute]
```

`Response`

The returned `GetLicenseResponse` contains the license in the JSON format.

```java
#include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-response]
```

`Async Execution`

This request can be executed asynchronously:

```java
#include-tagged::{doc-tests}/LicensingDocumentationIT.java[get-license-execute-async]
```
The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `GetLicenseResponse` looks like:

```json
["source","java",subs="attributes,callouts,macros"]
```

include-tagged:::[doc-tests]/LicensingDocumentationIT.java[get-license-execute-listener]

<1> Called when the execution is successfully completed. The response is provided as an argument

<2> Called in case of failure. The raised exception is provided as an argument

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The license can be added or updated using the `putLicense()` method:

```
["source","java",subs="attributes,callouts,macros"]
--------------------------------------------------
include-tagged:::{doc-tests}/LicensingDocumentationIT.java[put-license-execute]
--------------------------------------------------
```

<1> Set the categories of information to retrieve. The default is to return no information which is useful for checking if {xpack} is installed but not much else.

<2> A JSON document containing the license information.

```
[[java-rest-high-put-license-response]]
==== Response
```

The returned `PutLicenseResponse` contains the `LicensesStatus`,

---

Open Source Used In cnBR Operations Hub 22.2 11188
`acknowledged` flag and possible acknowledge messages. The acknowledge messages are present if you previously had a license with more features than one you are trying to update and you didn't set the `acknowledge` flag to `true`. In this case you need to display the messages to the end user and if they agree, resubmit the license with the `acknowledge` flag set to `true`. Please note that the request will still return a 200 return code even if requires an acknowledgement. So, it is necessary to check the `acknowledged` flag.

```java
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-response]
```

1. The status of the license
2. Make sure that the license is valid.
3. Check the acknowledge flag. It should be true if license is acknowledged.
4. Otherwise we can see the acknowledge messages in `acknowledgeHeader()`
5. and check component-specific messages in `acknowledgeMessages()`.

[[java-rest-high-put-license-async]]

==== Asynchronous Execution

This request can be executed asynchronously:

```java
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-execute-async]
```

1. The `PutLicenseRequest` to execute and the `ActionListener` to use when the execution completes

The asynchronous method does not block and returns immediately. Once it is completed the `ActionListener` is called back using the `onResponse` method if the execution successfully completed or using the `onFailure` method if it failed.

A typical listener for `PutLicenseResponse` looks like:

```java
include-tagged::{doc-tests}/LicensingDocumentationIT.java[put-license-execute-listener]
```

1. Called when the execution is successfully completed. The response is provided as an argument
2. Called in case of failure. The raised exception is provided as an argument

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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/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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Contributors:
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* Pete Fritchman (fetep)
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1.1054 distlib 0.2.6
1.1054.1 Available under license :

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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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distlib has started off using some of the code from distutil2.

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* javax.servlet:javax.servlet-api
* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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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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1.1061 py3-chardet 3.0.4-r4

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

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

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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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

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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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Apache

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org.apache.taglibs:taglibs-standard-impl

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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
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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Mortbay
The following artifacts are CDDL + GPLv2 with classpath exception.

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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Metadata-Version: 1.0
Name: cqlsh
Version: 5.0.3
Summary: A Python-based command-line client for running simple CQL commands on a Cassandra cluster
Home-page: http://git-wip-us.apache.org/repos/asf/cassandra.git
Author: Andrew Mussey
Author-email: admin@ajama.org
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Description: cqlsh is a Python-based command-line tool, and the most direct way
to run simple CQL commands on a Cassandra cluster. This is a simple
re-bundling of the open source tool that comes bundled with Cassandra
to allow for cqlsh to be installed and run inside of virtual
environments.
Keywords: python cql cassandra cqlsh
Platform: any

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1.1078 krb5-conf 1.0-r2

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lib/libgss/g_inquire_creds.c
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lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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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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lib/gssapi/mechglue/g_export_name.c
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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
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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
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A list of the supported algorithms, their origins and licenses (from the manual):

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CAST128
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DES
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MD2
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SHA224, SHA256, SHA384, and SHA512
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1.1083 fpm 1.14.2

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1.1087 util-linux 2.31.1 0.4ubuntu3.3
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* configure.ac, Makefile.am: The original versions were derived from the ones in the XML Catalog Manager project, version 2.2.

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

* atf-c/ui.c: The format_paragraph and format_text functions were derived from the ones in the Monotone project, revision 3a0982da308228d796df35f98d787c5cffe2bb5b6.

  Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp: These files were derived from the file_handle, systembuf, pipe and pistream classes and tests found in the Boost.Process library.
Author: Julio Merino <jmmv84@gmail.com>

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

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vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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Calling this script install-sh is preferred over install.sh, to prevent `make' implicit rules from creating a file called install from it 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.

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This package is used for testing builds of ncurses.

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@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 <antonio.bosselaers@esat.kuleuven.ac.be>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libhcrypto

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D3DES (V5.09) -
A portable, public domain, version of the Data Encryption Standard.

Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

( GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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Windows support

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lib/hcrypto/test_dh.c

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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1.1120 gnupg 2.2.19 3ubuntu2.1

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#:STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

---------------------------------------------------------------
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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:
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Michael Campanella (campanella@stevms.enet.dec.com)

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

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1.1127 iputils 20190709-3

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The End
1.1131 jffi 1.3.6

1.1132 e2fsprogs 1.45.5 2ubuntu1

1.1132.1 Available under license:

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

Sources were obtained from http://sourceforge.net/projects/e2fsprogs

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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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): $(OBJ)
(cd pic; ld -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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Theodore Ts'o
23-June-2007

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

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

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

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

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

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"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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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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This is the Debian GNU/Linux prepackaged version of the ss
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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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# 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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### 1.1134 glibc 2.31

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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
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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
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lib/gssapi/mechglue/g_seal.c
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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
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*/

Found in path(s):
* /opt/cola/permits/1137148391_1614022750.79/0/libapache2-mod-authnz-external-3-3-2-orig-1-tar-gz/mod_authnz_external-3.3.2/mod_authnz_external.c

1.1137 pam 1.1.8-3.6ubuntu2.18.04.3

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@ close(fd);
}

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        Index: pam.ubuntu/modules/pam_motd/pam_motd.c
/* Get the password entry */
pwd = pam_modutil_getpwnam (pamh, user);
if (pwd != NULL) {
    if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
        pam_syslog(pamh, LOG_ERR,
                "Unable to change UID to %d temporarily\n",
                pwd->pw_uid);
        retval = PAM_SESSION_ERR;
        goto finished;
    }

    if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
        goto finished;
    if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
        goto finished;

    if (stat(flag, &s) != 0)
        {
            display_file(pamh, "/etc/legal");
            mkdir(dir, 0700);
            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
                     S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
            if (f!=0) close(f);
        }
}

finished:
    if (pam_modutil_regain_priv(pamh, &privs)) {
        pam_syslog(pamh, LOG_ERR,
                "Unable to change UID back to %d\n", privs.old_uid);
        retval = PAM_SESSION_ERR;
    }

    _pam_drop(flag);
    _pam_drop(dir);
}

PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags, int argc, const char **argv)
{ @@ -116,6 +171,9 @@
/* Display the updated motd */
    display_file(pamh, motd_path);
+ /* Display the legal disclaimer only if necessary */

+    retval = display_legal(pamh);
+    return retval;
+
This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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**1.1138 swaggo-swag 1.8.2**

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   Found license 'General Public License 2.0' in 'No. PKWare has apparently decided to keep that format proprietary, since 42. The match.asm code in contrib is under the GNU General Public License, GNU GPL?'

1.1140 libxtst 1.2.3-1
1.1140.1 Available under license :
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1.1141 curl 7.52.1-5+deb9u16

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1.1144 avahi 0.7 4ubuntu7.1

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salaranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers.

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# Contributions to the urllib3 project

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* victor.vde <http://code.google.com/u/victor.vde/>
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* 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>
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  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

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

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * 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@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://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 <http://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 <http://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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* 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 Vandenberg <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

* Jesse 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.

* [Your name or handle] <[email or website]>
  * [Brief summary of your changes]
1.1155 child-process 4.1.0

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1.1156 mpdecimal 2.5.1

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1.1157 zstd-jni 1.4.4-7

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1.1158 jersey-common 2.28

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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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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text

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
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1.1161 cracklib 2.9.6-3.2

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

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

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

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

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

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

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:33

Attachments: Message as HTML
On Monday 01 October 2007, Neulinger, Nathan wrote:
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.

the original license (before moving to sourceforge -- aka, 2.7) was not=20
GPL-2 … it was a modified artistic license … i didnt notice the license=20
change until it was mentioned in the latest notes.

unlike the old license, GPL-2 prevents people from using cracklib unless th=20
eir applications are also GPL-2 which imo is just wrong. it isnt the place of =20
library to dictact to application writes what license they should be using. =20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro maintainers to get together with Alec in a conversation and come to a decision as to what licensing scheme y'all want. I haven't really done much other than cleaning up the packaging and patches and a small bit of additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
>=20
> On Monday 01 October 2007, Neulinger, Nathan wrote:
> > I understand that, and you're welcome to bring it up with Alec
directly
> > and see if he wants to relicense his code as LGPL... but at this
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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 isnt the
> > place of a
> > library to dictact to application writes what license they should
> > be using.
> > thus LGPL-2.1 enters to fill this void.
> > -mike
Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

Re: [Cracklib-devel] cracklib license
From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
I would like to see it under LGPL as well. I think it is in everyone’s
best interests to have as secure systems as possible, and I think tainting
it via GPL will just make it less likely that the library gets used, and
will not usually cause companies/developers to GPL the dependent code
(where it is not already GPL).

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.
>
> I am sympathetic. Guys, what do you reckon?
What I am hearing so far is that LGPL makes sense, since it can be
linked with any code, not just GPL...

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

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

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

Cheers,

Nalin

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

Attachments: Message as HTML
On Monday 28 January 2008, Nalin Dahyabhai wrote:
> On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > > Seems like the ideal thing here would be for you and the other distro
> > > maintainers to get together with Alec in a conversation and come to a
> > > decision as to what licensing scheme y'all want. I haven't really done
> > > much other than cleaning up the packaging and patches and a small
> > > bit of
> > > additional code, so whatever licensing y'all come up with is fine
> > > by me.
> > >
> > I am sympathetic. Guys, what do you reckon?
> >
> > What I am hearing so far is that LGPL makes sense, since it can be
> > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.
looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
the change now?
-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18
>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
On Sunday 05 October 2008, Alec Muffett wrote:
> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now?
> >
> > yes. go for it. thanks++

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

----------
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 i91Gxtpr020623
> for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
> Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
>   by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
> for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
> Received: from [82.68.43.14] (helo=[192.168.1.3])
>   by rutherford.zen.co.uk with esmtp (Exim 4.50)
> id H1OeX-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: <1b1bf3d80710010908k11dace0afplf2dd471059ff9a4@mail.gmail.com>
> References: <1190922867.3457.147.camel@localhost.localdomain>
>   <EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
>   <1b1bf3d80710010908k11dace0afplf2dd471059ff9a4@mail.gmail.com>
> Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
> Message-ID: <117A1264-F6DC-4E25-B0DD-56FBFE6E9F@crypticide.com>
> Content-Transfer-Encoding: 7bit
> From: Alec Muffett <alecm@crypticide.com>
> Subject: Re: cracklib license
> Date: Mon, 1 Oct 2007 17:59:46 +0100
> To: Nathan Neulinger <nneul@neulinger.org>
> X-Mailer: Apple Mail (2.752.2)
> X-Originating-Rutherford-IP: [82.68.43.14]
> Return-Path: alecm@crypticide.com
> X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[24200000:01C80450]
> Status: RO
> Content-Length: 585
> Lines: 21

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

1.1162 curl 7.64.0-4+deb10u2

1.1162.1 Available under license:

License Mixing

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

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

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

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

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it “incompatible” with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](https://www.gnu.org/licenses/lgpl.html) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## WolfSSL

(May be used for SSL/TLS support) Uses the GPL license or a proprietary license. If this is a problem for you, consider using another TLS library.

## NSS

(May be used for SSL/TLS support) Is covered by the [MPL](https://www.mozilla.org/MPL/) license, the GPL license and the LGPL license. You may choose to license the code under MPL terms, GPL terms, or LGPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

## mbedTLS

(May be used for SSL/TLS support) Uses the [Apache 2.0 license](https://opensource.org/licenses/Apache-2.0) or the GPL license. You may choose to license the code under Apache 2.0 terms or GPL terms. These licenses grant you different permissions and impose different obligations. You should select the license that best meets your needs.

## BoringSSL

(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## libressl
(May be used for SSL/TLS support) As an OpenSSL fork, it has the same license as that.

## c-ares

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

## zlib

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

## MIT Kerberos

(May be used for GSS support) MIT licensed, that shouldn't collide with any other parts.

## Heimdal

(May be used for GSS support) Heimdal is Original BSD licensed with the announcement clause.

## GNU GSS

(May be used for GSS support) GNU GSS is GPL licensed. Note that you may not distribute binary curl packages that uses this if you build curl to also link and use any Original BSD licensed libraries!

## 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

(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
COPYRIGHT AND PERMISSION NOTICE

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1.1163 curl 7.58.0 2ubuntu3.7

1.1163.1 Available under license :

License Mixing

----------

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particular problem was addressed when the [Modified BSD license](https://opensource.org/licenses/BSD-3-Clause) was created, which does not have the announcement clause that collides with GPL.

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## NSS

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## mbedTLS

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(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.

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## libssh2

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

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1.1164 tar 1.29b-1.1

1.1164.1 Available under license :

This is the Debian GNU/Linux prepackaged version of GNU tar. GNU tar, heavily based on John Gilmore's public domain version of tar, was originally written by Graham Todd. It is now maintained by Paul Eggert <eggert@twinsun.com>.

This package is maintained for Debian by Bdale Garbee <bdale@gag.com>, and was built from the sources found at:


More recently, I'm directly using the upstream source repository at

http://git.savannah.gnu.org/cgit/tar.git
GNU tar is


This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 3, or (at your option) any later version.

On Debian GNU/Linux systems, the complete text of the GNU General Public License version 3 can be found in /usr/share/common-licenses/GPL-3.

The Debian packaging is

Copyright (C) 2006, 2007 Bdale Garbee <bdale@gag.com>

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

On Debian GNU/Linux systems, the complete text of the GNU General Public License version 2 can be found in /usr/share/common-licenses/GPL-2.

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Version 3, 29 June 2007

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Preamble

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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
them if you wish), that you receive source code or can get it if you
want it, that you can change the software or use pieces of it in new
free programs, and that you know you can do these things.

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

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

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

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

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

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

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

TERMS AND CONDITIONS
0. Definitions.

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

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

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

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

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

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

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

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


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

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

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1.1170 pygments 2.12.0
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' # New ports collection makefile for: python25
' Comment

' # Date created: 3 July 2003
' Comment

' # Whom: Hye-Shik Chang <perky@FreeBSD.org>
' Comment

' #n
' Comment

' Comment

' n
' Text

' PORTNAME' Name.Variable
' =
' Operator
' ' 
' Text
' python25' Text
' n
' Text

' PORTVERSION' Name.Variable
' =
' Operator
' ' 
' Text
' ' 
' Literal.Number
' ' .5.1' Text
' ' 
' Text

' CATEGORIES' Name.Variable
' =
' Operator
' ' 
' Text
' ' 
' Text
' ' 
' Text
' ' 
' Text
' ' 
' Text
MASTER_SITES' Name.Variable
'=' Operator
'${' Literal.String.Interpol
'PYTHON_MASTER_SITES' Name.Variable
'}' Literal.String.Interpol

MASTER_SITE_SUBDIR' Name.Variable
'=' Operator
'${' Literal.String.Interpol
'PYTHON_MASTER_SITE_SUBDIR' Name.Variable
'}' Literal.String.Interpol

DISTFILES' Name.Variable
'=' Operator
'${' Literal.String.Interpol
'PYTHON_DISTFILE' Name.Variable
'}' Literal.String.Interpol

MAINTAINER' Name.Variable
'=' Operator
'python@FreeBSD.org' Text

COMMENT' Name.Variable
'?' Operator
'An' Text
'interpreted' Text
'object-oriented' Text
'programming' Text
'language' Text

un' Text

un' Text

un' Text

un' Text

un' Text

un' Text
DIST_SUBDIR = 'python'

WRKSRC = ${PYTHON_WRKSRC}/portbld.static

PATCH_WRKSRC = ${PYTHON_WRKSRC}/portbld.static

GNU_CONFIGURE = yes

CONFIGURE_TARGET = --build=${MACHINE_ARCH}-portbld-freebsd-${OSREL}

CONFIGURE_SCRIPT =

"n" Text
'./configure' Text
' ' Text
'# must be relative\n' Comment.Single

'CONFIGURE_ENV' Name.Variable
'=' Operator
'\t' Text
'OPT' Name.Variable
'=' Operator
' *** Literal.String.Double
'${' Literal.String.Interpol
'CFLAGS' Name.Variable
'}' Literal.String.Interpol
' ' Text
'SVNVERSION' Name.Variable
'=' Operator
'"echo freebsd"' Literal.String.Double
'\n' Text

'MAKE_ENV' Name.Variable
'=' Operator
'\t' Text
'VPATH' Name.Variable
'=' Operator
' *** Literal.String.Double
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'}' Literal.String.Interpol
' ' Text

'INSTALLS_SHLIB' Name.Variable
'=' Operator
'\t' Text
'yes' Text
'\n' Text

'INSTALL_TARGET' Name.Variable
'=' Operator
'\t' Text
'altinstall' Text
'\n' Text

'MAN1' Name.Variable
'=' Operator
'\$\t' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'}
'.1'
'
'
'USE_PYTHON' Name.Variable
'='
't'
'yes'
'no'

'PYTHON_VERSION' Name.Variable
'='
't'
'python2.5'
'no'

'PYTHON_NO_DEPENDS' Name.Variable
'='
't'
'yes'
'no'

'SHARED_WRKSRC' Name.Variable
'='
'$'
'portbld.shared'

'PLIST' Name.Variable
'='
'WRKDIR'
'$'
'/PLIST'

'PLIST_TEMPLATE' Name.Variable
'='
'$'}
'PKGDIR' Name.Variable
'/' Literal.String.Interpol
'pkg-plist' Text
'\n' Text

'PLIST_SUB' Name.Variable
'=' Operator
'\t' Text
'PYVER' Name.Variable
'=' Operator
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/'python//' Punctuation
'/' Literal.String.Interpol
'\n' Literal.String.Escape

'\tt' Text
'PYVER_WITHPAT' Name.Variable
'=' Operator
'${' Literal.String.Interpol
'PORTVERSION' Name.Variable
':' Punctuation
'S' Name.Variable
'/.c/c/' Punctuation
'/' Literal.String.Interpol
'\n' Text

'DEMODIR' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'/' Literal.String.Interpol
'/share/examples/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'/' Literal.String.Interpol
'\n' Text

'TOOLSDIR' Name.Variable
'=' Operator
'\t' Text
'${' Literal.String.Interpol
'PREFIX' Name.Variable
'/' Literal.String.Interpol
"/share/" Text
"$1" Literal.String.Interpol
"PYTHON_VERSION" Name.Variable
"1" Literal.String.Interpol
"un" Text

"un" Text

"BIN_SCRIPTS" Name.Variable
"=" Operator
"at" Text
"idle" Text
" " Text
"pydoc" Text
" " Text
"python" Text
" " Text
"python-shared" Text
" " Text
"smtpd.py" Text
" " Text
"python-config" Text
" " Text
"\\n" Literal.String.Escape

"\\t" Text
"python-shared-config" Text
"un" Text

"BINLINKS_SUB" Name.Variable
"=" Operator
"at" Text
"-c" Text
" " Text
""s,smtpd,smtpd${PYTHON_VER},"" Literal.String.Single
" " Text
"\\n" Literal.String.Escape

"\\t" Text
"-c" Text
" " Text
""s,(idle|pydoc|python-shared|python),\1${PYTHON_VER},"" Literal.String.Single
"un\n" Text

"OPTIONS" Name.Variable
"=" Operator
"at" Text
""THREADS" Text
"Enable thread support" on

"Use a larger thread stack" off

"Use UCS4 for unicode support" on

"Use python's internal malloc" on

"Enable IPv6 support" on

"Enable floating point exception handling"
`off`

`\n\n`.include <bsd.port.pre.mk>`

`.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}`

`MLINKS` `=`

`\t\t` ${PYTHON_VERSION} `.1` `python.1`

`PLIST_SUB` `+=` `IF_DEFAULT` `=""`

`.else`

`PLIST_SUB` `+=` `IF_DEFAULT` `"@comment "`

`.endif`

`# workaround for a bug in base curses.h`

`CFLAGS` `+=` `-D__wchar_t`
'.if !defined(WITHOUT_THREADS)

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'\t' Text
'--with-threads' Text
'\n' Text

'CFLAGS' Name.Variable
'+=' Operator
'\ttt' Text
'${'} Literal.String.Interpol
'PTHREAD_CFLAGS' Name.Variable
'\}' Literal.String.Interpol
'\n' Text

'.if defined(WITHOUT_HUGE_STACK_SIZE)

'CFLAGS' Name.Variable
'+=' Operator
'\ttt' Text
'--DTHREAD_STACK_SIZE' Text
'=' Operator
'0x20000' Text
'\n' Text

'.else\n' Comment.Preproc

'CFLAGS' Name.Variable
'+=' Operator
'\ttt' Text
'--DTHREAD_STACK_SIZE' Text
'=' Operator
'0x100000' Text
'\n' Text

'.endif # defined(WITHOUT_HUGE_STACK_SIZE)

'.if defined(WITHOUT_HUGE_STACK_SIZE)

'CONFIGURE_ENV' Name.Variable
'+=' Operator
'\ttt' Text
'--LDFLAGS' Name.Variable
'\n' Text
= Operator
"" Literal.String.Double
'${' Literal.String.Interpol
'PTHREAD_LIBS' Name.Variable
'}' Literal.String.Interpol
"" Literal.String.Double
'${' Literal.String.Interpol
'LDFLAGS' Name.Variable
'}' Literal.String.Interpol
"" Literal.String.Double
'\n' Text
'.else
' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'--without-threads' Text
'\n' Text
'.if defined(LDFLAGS)\n' Comment.Preproc

'CONFIGURE_ENV' Name.Variable
'+=' Operator
'\n' Text
'LDFLAGS' Name.Variable
'=' Operator
"" Literal.String.Double
'${' Literal.String.Interpol
'LDFLAGS' Name.Variable
'}' Literal.String.Interpol
"" Literal.String.Double
'\n' Text
'.endif # defined(LDFLAGS)\n' Comment.Preproc

'.endif # !defined(WITHOUT_THREADS)\n' Comment.Preproc

'.if !defined(WITHOUT_UCS4) && !defined(WITH_UCS2)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+=' Operator
'--enable-unicode' Text
'=' Operator
'ucs4' Text
'\n'   Text
'.endif'  Comment.Preproc

'\n'   Text
'.if defined(WITHOUT_PYMALLOC)\n'  Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='   Operator
' '   Text
'--without-pymalloc' Text
'\n'   Text
'.endif'  Comment.Preproc

'\n'   Text
'.if ${ARCH} == i386\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='   Operator
'\t'   Text
'X86_ONLY' Name.Variable
'='   Operator
'""' Literal.String.Double
'\n'   Text
'.else\n'   Comment.Preproc

'PLIST_SUB' Name.Variable
'+='   Operator
'\t'   Text
'X86_ONLY' Name.Variable
'='   Operator
'"@comment '" Literal.String.Double
'\n'   Text
'.endif'  Comment.Preproc

'.if ${ARCH} == amd64 || ${ARCH} == ia64 || ${ARCH} == sparc64 || ${ARCH} == alpha\n'  Comment.Preproc

'PLIST_SUB' Name.Variable
'+='   Operator
' '   Text
'32BIT_ONLY' Name.Variable
'='   Operator
'"@comment '" Literal.String.Double

'
'.else
'
'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text
'32BIT_ONLY' Name.Variable
'=' Operator
'''' Literal.String.Double
'
'.endif Comment.Preproc

'.if ${ARCH} == sparc64'
'CFLAGS' Name.Variable
'+=' Operator
' ' Text
'-DPYTHON_DEFAULT_RECURSION_LIMIT' Text
'=' Operator
'900' Literal.Number
'
'.endif Comment_Preproc

'
'
'.if !exists(/usr/bin/ypcat) # the world with NO_NIS
'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text
'NO_NIS' Name.Variable
'=' Operator
'''' @comment '''' Literal.String.Double
'
'.else
'
'PLIST_SUB' Name.Variable
'+=' Operator
' ' Text
'NO_NIS' Name.Variable
'=' Operator
'''' Literal.String.Double
'
'.else


Open Source Used In cnBR Operations Hub 22.2 12377
'.endif
'    Comment.Preproc

'\n'    Text

'.if !defined(WITHOUT_IPV6)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='       Operator
' '       Text
'--enable-ipv6' Text
'\n'       Text

'.else\n'    Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='       Operator
' '       Text
'--disable-ipv6' Text
'\n'       Text

'.endif\n'    Comment.Preproc

'\n'    Text

'.if defined(WITH_FPECTL)\n' Comment.Preproc

'CONFIGURE_ARGS' Name.Variable
'+='       Operator
' '       Text
'--with-fpectl' Text
'\n'       Text

'.endif\n'    Comment.Preproc

'\n'    Text

'.if ${OSVERSION} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='       Operator
'plat-freebsd4' Text
' '       Text
'plat-freebsd5' Text
' '       Text
'plat-freebsd6' Text
'\n'       Text

'.elif ${OSVERSION} >= 600000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='       Operator
'plat-freebsd4' Text
' '       Text
'plat-freebsd5' Text
' '       Text
'plat-freebsd6' Text
'\n'       Text

'.elif ${OSVERSION} >= 500000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='       Operator
'plat-freebsd4' Text
' '       Text
'plat-freebsd5' Text
' '       Text
'plat-freebsd6' Text
'\n'       Text

'.else\n'    Comment.Preproc

'\n'    Text

'.endif
'    Comment.Preproc

'\n'    Text

'.if $\{OSVERSION\} >= 700000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='       Operator
'plat-freebsd4' Text
' '       Text
'plat-freebsd5' Text
' '       Text
'plat-freebsd6' Text
'\n'       Text

'.elif $\{OSVERSION\} >= 600000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='       Operator
'plat-freebsd4' Text
' '       Text
'plat-freebsd5' Text
' '       Text
'plat-freebsd6' Text
'\n'       Text

'.elif $\{OSVERSION\} >= 500000\n' Comment.Preproc

'PLATFORMS' Name.Variable
'='       Operator
'plat-freebsd4' Text
' '       Text
'plat-freebsd5' Text
' '       Text
'plat-freebsd6' Text
'\n'       Text

'.else\n'    Comment.Preproc

'\n'    Text

'.endif
'    Comment.Preproc

'\n'    Text
'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
' ' Text
'plat-freebsd5' Text
' ' Text
'plat-freebsd7' Text
'\n' Text
'.else\n' Comment.Preproc

'PLATFORMS' Name.Variable
'=' Operator
'plat-freebsd4' Text
' ' Text
'plat-freebsd6' Text
' ' Text
'plat-freebsd7' Text
'\n' Text
'.endif\n' Comment.Preproc

'\n' Text

'pre-patch' Name.Function
'.' Operator
'\n' Text

'\t' Text
'${' Literal.String.Interpol
'MKDIR' Name.Variable
'}' Literal.String.Interpol
' ' Text
'${' Literal.String.Interpol
'WRKSRCP' Name.Variable
'}' Literal.String.Interpol
' ' Text
'${' Literal.String.Interpol
'SHARED_WRKSRCP' Name.Variable
'}' Literal.String.Interpol
' ' Text
'/Modules' Text
'\n\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
' ' Text
'\-e' Text
```
'1s.^.*$,.!$[PREFIX]/bin/$[PYTHON_VERSION],'' Literal.String.Single
'' Text
\n' Literal.String.Escape

'\n' Text
'S[\' ' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
']' Literal.String.Interpol
'/Tools/scripts/pydoc' Text
' ' Text
'>' Text
'' Text

'$[\' ' Literal.String.Interpol
'WRKDIR' Name.Variable
']' Literal.String.Interpol
'/pydoc2.5' Text
'\n' Text
'$[\' ' Literal.String.Interpol
'SED' Name.Variable
']' Literal.String.Interpol
'' Text
'\n' Text
'' Text
'' Text

"1s.^.*$,.!$[PREFIX]/bin/$[PYTHON_VERSION],"" Literal.String.Single
'' Text
\n' Literal.String.Escape

'\n' Text
'S[\' ' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
']' Literal.String.Interpol
'/Tools/scripts/idle' Text
' ' Text
'>' Text
'' Text

'$[\' ' Literal.String.Interpol
'WRKDIR' Name.Variable
']' Literal.String.Interpol
'/idle2.5' Text
'\n' Text
'$[\' ' Literal.String.Interpol
'SED' Name.Variable
']' Literal.String.Interpol
'' Text
'\n' Text
'' Text

"1s.^.*$,.!$[PREFIX]/bin/$[PYTHON_VERSION],"" Literal.String.Single
```
```
'' Text
'\\n' Literal.String.Escape

'"' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/smtpd.py' Text
'' Text
'>' Text
'"' Text
'' Text
'${' Literal.String.Interpol
'WRKDIR' Name.Variable
'}' Literal.String.Interpol
'/smtpd2.5.py' Text
'un"' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'"' Text
'-'e' Text
'"' Text
'\\n' Literal.String.Escape

'"' Text
'"s,/usr/doc/python-docs-.${PREFIX}/share/doc/python,g" Literal.String.Single
'' Text
'\\n' Literal.String.Escape

'"' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/pydoc.py' Text
'un"' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'"' Text
'-'e' Text
'"' Text
'\\n' Literal.String.Escape

'"' Text
'"s\( *prefixes = .*\)\]$$|\1, \"${X11BASE}"\]|g" Literal.String.Single
'' Text
'\\n' Literal.String.Escape
```
'\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Lib/site.py' Text
'\n' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'-e' Text
' ' Text
'\n' Literal.String.Escape

'\t' Text
"$[\n\(\ ASDLGEN.*\)$$|\${TRUE}|g" Literal.String.Single
' ' Text
'\n' Literal.String.Escape

'\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n' Text
'${' Literal.String.Interpol
'REINPLACE_CMD' Name.Variable
'}' Literal.String.Interpol
'-e' Text
' ' Text
'\n' Literal.String.Escape

'\t' Text
"$[\n\(\ INSTALL_SCRIPT.*\)python-config$$|#port \1|" Literal.String.Single
' ' Text
'\n' Literal.String.Escape

'\t' Text
'${' Literal.String.Interpol
'PATCH_WRKSRC' Name.Variable
'}' Literal.String.Interpol
'/Makefile.pre.in' Text
'\n' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'}' Literal.String.Interpol
' ' Text
```
-e

"s|[^\!\*]|\$\{PREFIX\}/bin/\$\{PYTHON_VERSION\}|" Literal.String.Single

\\\n Literal.String.Escape

\"Literal.String.Interpol

PATCH_WRKSRC Name.Variable
\"
Literal.String.Interpol
\'/Misc/python-config.in' Text

> Text

\"Literal.String.Interpol

WRKDIR Name.Variable
\"
Literal.String.Interpol

\$\{

PYTHON_VERSION Name.Variable
\'
Literal.String.Interpol

-\-config Text

\n\n Text

\$\{

SED Name.Variable
\"
Literal.String.Interpol

-e Text

\"Literal.String.Interpol

"s|[^\!\*]|\$\{PREFIX\}/bin/\$\{PYTHON_VERSION\}:thon/thon-shared/|" Literal.String.Single

\\\n Literal.String.Escape

\"Literal.String.Interpol

PATCH_WRKSRC Name.Variable
\"
Literal.String.Interpol
\'/Misc/python-config.in' Text

> Text

\"Literal.String.Interpol

WRKDIR Name.Variable
\"
Literal.String.Interpol

\$\{

PYTHON_VERSION Name.Variable
\'
Punctuation
```
.if defined(WITH_FPECTL) && ${ARCH} == i386
	${MKDIR} ${WRKSRC}/Modules
	${ECHO} "fpectl fpectlmodule.c" ${WRKSRC}/Modules/Setup.dist
.endif

post-configure:
	${TAR} -C
	${WRKSRC} ./Modules/Setup.dist

post-build: post-configure
'WRKSRC' Name.Variable
'\}' Literal.String.Interpol
' ' Text
'-.cf' Text
' ' Text
'-' Text
'.' Text
'|' Punctuation
' ' Text
'${' Literal.String.Interpol
'TAR' Name.Variable
'\}' Literal.String.Interpol
' ' Text
'-.C' Text
' ' Text
'${' Literal.String.Interpol
'SHARED_WRKSRC' Name.Variable
'\}' Literal.String.Interpol
' ' Text
'-.xf' Text
' ' Text
'-' Text
'un\t' Text
'${' Literal.String.Interpol
'LN' Name.Variable
'\}' Literal.String.Interpol
' ' Text
'-.sf' Text
' ' Text
'${' Literal.String.Interpol
'PYTHON_WRKSRC' Name.Variable
'\}' Literal.String.Interpol
'Lib' Text
' ' Text
'${' Literal.String.Interpol
'WRKSRC' Name.Variable
'\}' Literal.String.Interpol
'Lib' Text
'un\t' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'\}' Literal.String.Interpol
' ' Text
'-.e' Text
' ' Text
"s,^(LDLIBRARY=\").*$$,\1libpython$$(VERSION).so,\" Literal.String.Single
{'pre-build': Name.Function,
':': Operator,
'un': Text
'
't': Text,
'cd': Name.Builtin,
'\n': Text
'
'{': Literal.String.Interpol,
'SHARED_WRKSRC': Name.Variable,
'}': Literal.String.Interpol,
'
': Punctuation,
'\n': Text
'
'un': Literal.String.Escape
'
't': Text,
'{': Literal.String.Interpol,
'SETENV': Name.Variable,
'}': Literal.String.Interpol,
'
': Text
'
'{': Literal.String.Interpol,
'MAKE_ENV': Name.Variable,
'}': Literal.String.Interpol,
'
': Text
'
'{': Literal.String.Interpol,
'MAKE': Name.Variable,
'}': Literal.String.Interpol,
'
'lib': Text,
'{': Literal.String.Interpol,
'PYTHON_VERSION': Name.Variable,
'}': Literal.String.Interpol,
'.so': Text,
'
': Text
'
'python': Text,
':': Punctuation,
'
': Text
'
'un': Literal.String.Escape
'
't': Text,
'{': Literal.String.Interpol,
'LN': Name.Variable,
'}': Literal.String.Interpol,
'
': Text
'
f': Text
```
'lib'
'${' PYTHON_VERSION '}' .so
'lib'
'${' PYTHON_VERSION '}' .so.1 ;
\\n'python'
'${' PYTHON_VERSION '}' :S /thon/thon-shared/

pre-su-install:
.for platform in '${PLATFORMS}'
	'${' MKDIR '}' '${' PYTHONPREFIX_LIBDIR '}' /

'un'

'.for platform in '${PLATFORMS}'
	'${' PYTHON_VERSION '}' :S '/thon/thon-shared/'
	'${' PYTHON_VERSION '}' :S '

'un

pre-su-install' Name.Function
'.' Operator
'un'

'.for platform in '${PLATFORMS}'
	'${' MKDIR '}' '${' PYTHONPREFIX_LIBDIR '}' /

'un'

'.for platform in '${PLATFORMS}'
	'${' PYTHON_VERSION '}' :S '/thon/thon-shared/'
	'${' PYTHON_VERSION '}' :S '
```

---

Open Source Used In cnBR Operations Hub 22.2 12388
for file in IN.py regen

	${INSTALL_DATA} ${WRKSRC}/Lib/${platform}/

.endfor

pre-install:
	down ${PYTHONPREFIX_LIBDIR}/${platform}/

.endfor


"$\{\"CAT\"\}"

"$\{PLIST_TEMPLATE\}"

"$\{AWK\}"

"\[ print $$0; \ \\n\"LIBDIR.*/py$$/ && !/bad/ { print $$0 \"o\"; print $$0 \"c\"; }\]""

"\"if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\""

"\"\""

"\"\""

"\"\""

"\"\""

"\n\n"

"\"# if openssl 0.9.8 is detected, _sha{256,512} module won't be installed\n""
'' Text
"lib-dynload/_sha" Literal.String.Single
'' Text
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'' Text
'>' Text
'' Text
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'.tmp' Text
'' Text
'&&' Operator
'' Text
'\n' Literal.String.Escape

'\n' Text
'${' Literal.String.Interpol
'CAT' Name.Variable
'}' Literal.String.Interpol
'' Text
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'.tmp' Text
'' Text
'>' Text
'' Text
'${' Literal.String.Interpol
'PLIST' Name.Variable
'}' Literal.String.Interpol
'&&' Operator
'' Text
'|| Operator
'' Text
'${' Literal.String.Interpol
'TRUE' Name.Variable
'}' Literal.String.Interpol
'un\n' Text

'post-install' Name.Function
'.' Operator
'un' Text

'@# install config providers' Comment
"@# shared version of executable and library

@# shared version of executable and library
Open Source Used In cnBR Operations Hub 22.2  12394

{
'

  \'$\{

    PREFIX
  \}'

  '/lib/lib'

'/config'

  \n
  ${INSTALL_PROGRAM}

  '\n'

  '/thon/thon-shared/

  '\n'

  '/bin'

\n
  \@# additional files installing by ports

  '\n'

'
"\t\t" Text
'${' Literal.String.Interpol
'MANPREFIX' Name.Variable
'\' Literal.String.Interpol
'/man/man1/' Text
'${' Literal.String.Interpol
'PYTHON_VERSION' Name.Variable
'\' Literal.String.Interpol
'.1' Text
'un\n' Text

'.if ${PYTHON_VERSION} == ${PYTHON_DEFAULT_VERSION}\n Comment.Preproc

'\t' Text
'for' Keyword
'' Text
'\r' Text
'' Text
'in' Keyword
'' Text
'${' Literal.String.Interpol
'BIN_SCRIPTS' Name.Variable
'\' Literal.String.Interpol
'.' Punctuation
'' Text
'do' Keyword
'' Text
'\\n' Literal.String.Escape

'\t\t' Text
'TARGET' Name.Variable
'=' Operator
'' Literal.String.Backtick
'${' Literal.String.Interpol
'ECHO_CMD' Name.Variable
'\' Literal.String.Interpol
'' Text
'$$' Name.Variable
'\r' Text
'' Text
'\r' Punctuation
'' Text
'${' Literal.String.Interpol
'SED' Name.Variable
'\' Literal.String.Interpol
'' Text
'\-E' Text
'' Text
`$(` Literal.String.Interpol
`BINLINKS_SUB` Name.Variable
`)` Literal.String.Interpol
`""` Literal.String.Backtick
`'` Punctuation
`'` Text
`
` Literal.String.Escape

`\"` Text
`cd` Name.Builtin
` ` Text
`$(` Literal.String.Interpol
`'PREFIX` Name.Variable
`)` Literal.String.Interpol
`/bin` Text
` ` Text
`&&` Operator
` ` Text
`$(` Literal.String.Interpol
`'LN` Name.Variable
`)` Literal.String.Interpol
` ` Text
`'f` Text
` ` Text
`$$` Name.Variable
`'TARGET` Text
` ` Text
`$$` Name.Variable
`'` Text
`'` Punctuation
` ` Text
`
` Literal.String.Escape

`\n` Text
`'done` Keyword
`\n` Text
`.endif` Comment.Preproc

`\n` Text

`.if !defined(NOPORTDOCS)` Comment.Preproc

`\n` Text
`@` Text
`$(` Literal.String.Interpol
`'MKDIR` Name.Variable
`)` Literal.String.Interpol
```
	# Text
	\$\{
	'DEMODIR' Name.Variable
	\}
	Text
	\n\n	\cd
	$\{
	'PYTHON_WRKSRC' Name.Variable
	\}
	'/Demo';
	$\{
	'TAR' Name.Variable
	\}
	'-' Text
	\n\n	\n\n	\\n'\n'.endif
```

```

\n'\n'
'\' Operator
'\cd' Name.Builtin
'

$\{
'TAR' Name.Variable
\}
'TAR'
'

$\{
'DEMODIR' Name.Variable
\}
'

$\{
'TAR' Name.Variable
\}
'

'\xf'
'
'
'\'
Operator
'\n'
'
'.endif
```
.include <bsd.port.post.mk>

1.1171 wheel 0.37.0

1.1171.1 Available under license:

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1.1172 sprig 3.2.2

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@enumerate a
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@enumerate
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@end subheading

@subheading END OF TERMS AND CONDITIONS

@page

@subheading 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
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@item
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Appendix: How to Apply These Terms to Your New Programs

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

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

@example

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

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

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

@example

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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

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

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

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

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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- the libintl.jar Java library,
- the GNU.Gettext.dll C# library,
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b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

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

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

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

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

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

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

6. As an exception to the Sections above, you may also combine or
link a “work that uses the Library” with the Library to produce a
work containing portions of the Library, and distribute that work
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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.

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1.1178 py3-progress 1.5-r0

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1.1179 musl 1.1.24-r10

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1.1181 openssl_pkcs8_pure 0.0.0.2

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1.1182 jackson-annotations 2.12.3

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1.1184 lsb 9.20170808ubuntu1

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1.1185 base-passwd 3.5.46

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Name: linecache2
Version: 1.0.0
Summary: Backports of the linecache module
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Author: Testing-cabal
Author-email: testing-cabal@lists.launchpad.net
License: UNKNOWN
Description: A backport of linecache to older supported Pythons.

>>> import linecache2 as linecache

Profit.

Platform: UNKNOWN
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3.1.6

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

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1.1196 findutils 4.6.0+git+20161106-2

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It was downloaded from ftp://ftp.gnu.org/gnu/findutils
Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman Dmitry V. Levin

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/utill/LazyJavaxX509Certificate.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/sslContextBuilder.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
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* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/address/package-info.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/util/X509KeyManagerWrapper.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/util/TrustManagerFactoryWrapper.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/util/KeyManagerFactoryWrapper.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
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* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/InsecureTrustManagerFactory.java
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* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ipfilter/IPFilterRule.java
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* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /opt/cola/permits/1208967517_1632975972.01/0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/IPFilterRule.java

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* /opt/cola/permits/1208967517_1632975972_01_0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
* /opt/cola/permits/1208967517_1632975972_01_0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRuleComparator.java
* /opt/cola/permits/1208967517_1632975972_01_0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/ssl/SslClosedEngineException.java
* /opt/cola/permits/1208967517_1632975972_01_0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/s/ut/Util/FingerprintTrustManagerFactoryBuilder.java
* /opt/cola/permits/1208967517_1632975972_01_0/netty-handler-4-1-68-final-sources-jar/io/netty/handler/logging/ByteBufFormat.java
1.1199 istack-commons 3.0.5

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Manifest-Version: 1.0
Bundle-Description: istack common utility code
Implementation-Title: istack common utility code runtime
Bundle-License: https://glassfish.java.net/public/CDDL+GPL_1_1.html, https://glassfish.java.net/public/CDDL+GPL_1_1.html
Bundle-SymbolicName: com.sun.istack.commons-runtime
Implementation-Version: 3.0.5
Built-By: build
Bnd-LastModified: 1486772850426
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: com.sun.istack
Bundle-DocURL: http://www.oracle.com/
Bundle-Vendor: Oracle Corporation
Import-Package: javax.activation, javax.xml.namespace, javax.xml.stream, org.xml.sax, org.xml.sax.helpers
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: Oracle Corporation
Export-Package: com.sun.istack;uses="javax.activation, javax.xml.stream, org.xml.sax, org.xml.sax.helpers";version="3.0.5", com.sun.istack.logging;version="3.0.5"
Bundle-Name: istack common utility code runtime
Bundle-Version: 3.0.5
Implementation-Build-Id: tags/istack-commons-3.0.5-321, 2017-02-11T01:27:24+0100
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_112

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* /opt/cola/permits/1334904685_1653676440.7415743/0/istack-commons-runtime-3.0.5-jar/META-INF/MANIFEST.MF
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Other-Authors: Roland McGrath, Akim Demaille, Paul Eggert,
  David Mackenzie, Bruno Haible, and many others.
Origin: configure.ac from XZ Utils,
  visibility.m4 serial 1 (gettext-0.15),
  Autoconf 2.52g
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dos/config.h was generated with autoheader, which tells Autoconf to
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1.1235 curl 7.52.1-5+deb9u15

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

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

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

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1.1236 libsodium 3.10.0

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1.1237 yaml 0.2.4-r1
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1.1238 hikaricp-java7 2.4.13

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zip/com/zaxxer/hikari/metrics/MetricsTracker.java
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zip/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
* /opt/cola/permits/203480980_1651176812.86/0/hikaricp-java7-2-4-13-sources-
zip/com/zaxxer/hikari/HikariJNDIFactory.java
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1.1241 hdrhistogram 2.1.9

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package org.HdrHistogram;

final class Version {
    public static final String version="$VERSION$";
    public static final String build_time="$BUILD TIME$";
}

Found in path(s):
* /opt/cola/permits/174180979_1651176763.070/hdrhistogram-2-1-9-sources.jar/org/HdrHistogram/Version.java.template
1.1242 python-setuptools 58.1.0

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1.1243 go-autorest 0.11.20

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1.1244 netty-transport 4.1.74.Final

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* /opt/cola/permits/1649325940.31/0/netty-transport-4-1-74-final-sources-1-
jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
jar/io/netty/channel/socket/io/OioServerSocketChannelConfig.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
jar/io/netty/channel/ChannelHandlerAdapter.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
jar/io/netty/channel/group/ChannelMatcher.java
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jar/io/netty/channel/ChannelInboundHandler.java
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  jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/channel/PendingBytesTracker.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/channel/socket/ChannelOutputShutdownException.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/channel/internal/ChannelUtils.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/channel/internal/package-info.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/bootstrap/FailedChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java

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* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/RecvByteBufAllocator.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/ChannelPromiseAggregator.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/DefaultEventLoopGroup.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/socket/SocketChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/ChannelOption.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/DefaultChannelPromise.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/socket/ServerSocketChannelConfig.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/embedded/EmbeddedSocketAddress.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/ChannelHandlerContext.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/AbstractChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/ChannelException.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io.netty/channel/VoidChannelPromise.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/ChannelPipelineException.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/LocalChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/nio/NioEventLoop.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/nio/NioEventLoopGroup.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/socket/NetworkChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/socket/SocketChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/socket/SocketChannelConfig.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/ChannelFuture.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/ChannelInitializer.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/ChannelFuture.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/sun/EventLoop.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/ServerChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/group/ChannelGroupFuture.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/socket/DatagramPacket.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/embedded/package-info.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/ChannelPromiseNotifier.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/DefaultFileRegion.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/socket/nio/NioDatagramChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/SingleThreadEventLoop.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/AbstractServerChannel.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/ChannelPipeline.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1.jar/io/netty/channel/ChannelOutboundHandler.java

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 */
*/
/**
 * Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
 * its { @link ChannelPipeline}.  
 * <h3>Sub-types</h3>
 * [ @link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
 * subtypes:
 * <ul>
 * <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
 * <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
 * </ul>
 * </p>
 * <p>
 * Alternatively, the following adapter classes are provided for your convenience:
 * <ul>
 * <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
 * <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
 * <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
 * </ul>
 * </p>
 * <p>
 * For more information, please refer to the documentation of each subtype.
 * </p>
 *
 * <h3>The context object</h3>
 * A { @link ChannelHandler} is provided with a { @link ChannelHandlerContext}
 * object. A { @link ChannelHandler} is supposed to interact with the
 * { @link ChannelPipeline} it belongs to via a context object. Using the
 * context object, the { @link ChannelHandler} can pass events upstream or
 * downstream, modify the pipeline dynamically, or store the information
 * (using { @link AttributeKey}s) which is specific to the handler.
 * 
 * <h3>State management</h3>
 * A { @link ChannelHandler} often needs to store some stateful information.
 * The simplest and recommended approach is to use member variables:
 * <pre>
 * public interface Message {
 *     // your methods here
 * }
 * 
 * public class DataServerHandler extends { @link SimpleChannelInboundHandler}&lt;Message&gt; { 
 * 
 *     private boolean loggedIn;
 * }
* { @code @Override }
* public void channelRead0(@link ChannelHandlerContext) ctx, Message message) {
*     if (message instanceof LoginMessage) {
*         authenticate((LoginMessage) message);
*         loggedIn = true;
*     } else (message instanceof GetDataMessage) {
*         if (loggedIn) {
*             ctx.writeAndFlush(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 }<@link Channel> {
*     @Override
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* }
* </pre>
*
* <h4>Using { @link AttributeKey }s</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
* }
* </pre>
* public class DataServerHandler extends { @link SimpleChannelInboundHandler }<Message> {
*     private final { @link AttributeKey } auth = { @link AttributeKey#valueOf(String) AttributeKey.valueOf("auth") });
* { @code @Override}
  * public void channelRead(@link ChannelHandlerContext) ctx, Message message) {
  *     @link Attribute.&lt;@link Boolean&gt; attr = ctx.attr(auth);
  *     if (message instanceof LoginMessage) {
  *         authenticate((LoginMessage) o);
  *         attr.set(true);
  *     } else (message instanceof GetDataMessage) {
  *         if ((Boolean.TRUE.equals(attr.get())) {
  *             ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
  *         } else {
  *             fail();
  *         }
  *     }
  * }
  *
  * }<br>
*     Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the
*     same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends @link ChannelInitializer&lt;@link Channel&gt; {<br>  *
*     private static final DataServerHandler SHARED = new DataServerHandler();
*     
*     { @code @Override}
*     public void initChannel(@link Channel) channel) {
*         channel.pipeline().addLast("handler", SHARED);
*     }
* }
* </pre>
* 
* <h4>The { @code @Sharable} annotation</h4>
* In the example above which used an { @link AttributeKey},
* you might have noticed the { @code @Sharable} annotation.
* 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
* <h3>Additional resources worth reading</h3>

* 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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jar/io/netty/channel/StacklessClosedChannelException.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-
jar/io/netty/channel/socket/DuplexChannelConfig.java

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  jar/io/netty/channel/PreferHeapByteBufAllocator.java
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  jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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  jar/io/netty/channel/ChannelOutboundInvoker.java
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  jar/io/netty/channel/WriteBufferWaterMark.java
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* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io/netty/channel/pool/channel/AbstractChannelPoolMap.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io/netty/channel/pool/channel/package-info.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io/netty/channel/pool/channel/ChannelHealthChecker.java
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* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io/netty/channel/pool/channel/AbstractCoalescingBufferQueue.java
* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io/netty/channel/pool/channel/AbstractCoalescingBufferQueue.java

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* /opt/cola/permits/1302203744_1649325940.31/0/netty-transport-4-1-74-final-sources-1-jar/io/netty/channel/AbstractCoalescingBufferQueue.java
1.1245 libcap 2.25-1

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- web-app_3_0.xsd
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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.1254 glob 0.2.3
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Tests included here are based on build output generated by the six-speed benchmark suite.

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

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

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

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2.1.2  2.1.1       2002   PSF   yes
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1.1260 tomcat-catalina-ha 9.0.63

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1.1261 numpy 1.8.0

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`Gnomovision' (which makes passes at compilers) written by James Hacker.

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

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1.1266 elastic-go-elasticsearch 6.8.10
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package esapi

import (
    "context"
    "io"
    "net/http"
    "strconv"
    "strings"
)

func newXPackLicensePostFunc(t Transport) XPackLicensePost {
return func(o ...func(*XPackLicensePostRequest)) (*Response, error) {
    var r = XPackLicensePostRequest{}
    for _, f := range o {
        f(&r)
    }
    return r.Do(r.ctx, t)
}

// ----- API Definition -----------------------------------------------

//
// type XPackLicensePost func(o ...func(*XPackLicensePostRequest)) (*Response, error)

// XPackLicensePostRequest configures the X Pack License Post API request.
//
// type XPackLicensePostRequest struct {
//     Body io.Reader
//     Acknowledge *bool
//     Pretty bool
//     Human bool
//     ErrorTrace bool
//     FilterPath []string
//     Header http.Header
//     ctx context.Context
// }

// Do executes the request and returns response or error.
//
// func (r XPackLicensePostRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
//     var (method string
//         path strings.Builder
//         params map[string]string
//     )

//     method = "PUT"

//     path.Grow(len("/_xpack/license"))
//     path.WriteString("/_xpack/license")

//     params = make(map[string]string)
if r.Acknowledge != nil {
    params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
}

if r.Pretty {
    params["pretty"] = "true"
}

if r.Human {
    params["human"] = "true"
}

if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), r.Body)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if r.Body != nil {
    req.Header[headerContentType] = headerContentTypeJSON
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:       res.Body,
    Header:     res.Header,
}

return &response, nil

// WithContext sets the request context.
//
// func (f XPackLicensePost) WithContext(v context.Context) func(*XPackLicensePostRequest) {
//     return func(r *XPackLicensePostRequest) {
//         r.ctx = v
//     }
// }

// WithBody - licenses to be installed.
//
// func (f XPackLicensePost) WithBody(v io.Reader) func(*XPackLicensePostRequest) {
//     return func(r *XPackLicensePostRequest) {
//         r.Body = v
//     }
// }

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
//
// func (f XPackLicensePost) WithAcknowledge(v bool) func(*XPackLicensePostRequest) {
//     return func(r *XPackLicensePostRequest) {
//         r.Acknowledge = &v
//     }
// }

// WithPretty makes the response body pretty-printed.
//
// func (f XPackLicensePost) WithPretty() func(*XPackLicensePostRequest) {
//     return func(r *XPackLicensePostRequest) {
//         r.Pretty = true
//     }
// }
// WithHuman makes statistical values human-readable.
//
// func (f XPackLicensePost) WithHuman() func(*XPackLicensePostRequest) {
// return func(r *XPackLicensePostRequest) {
// r.Human = true
// }
// }
//
// WithErrorTrace includes the stack trace for errors in the response body.
//
// func (f XPackLicensePost) WithErrorTrace() func(*XPackLicensePostRequest) {
// return func(r *XPackLicensePostRequest) {
// r.ErrorTrace = true
// }
// }
//
// WithFilterPath filters the properties of the response body.
//
// func (f XPackLicensePost) WithFilterPath(v ...string) func(*XPackLicensePostRequest) {
// return func(r *XPackLicensePostRequest) {
// r.FilterPath = v
// }
// }
//
// WithHeader adds the headers to the HTTP request.
//
// func (f XPackLicensePost) WithHeader(h map[string]string) func(*XPackLicensePostRequest) {
// return func(r *XPackLicensePostRequest) {
// if r.Header == nil {
// r.Header = make(http.Header)
// }
// for k, v := range h {
// r.Header.Add(k, v)
// }
// }
// }
//
// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
//
// func (f XPackLicensePost) WithOpaqueID(s string) func(*XPackLicensePostRequest) {
// return func(r *XPackLicensePostRequest) {
// if r.Header == nil {
// r.Header = make(http.Header)
// }
// r.Header.Set("X-Opaque-Id", s)
package esapi
import {
    "context"
    "net/http"
    "strconv"
    "strings"
}

func newXPackLicensePostStartTrialFunc(t Transport) XPackLicensePostStartTrial {
    return func(o ...func(*XPackLicensePostStartTrialRequest)) (*Response, error) {
        var r = XPackLicensePostStartTrialRequest{
            Acknowledge:  nil,
            DocumentType: "",
            Pretty:        true,
            Human:         true,
            ErrorTrace:    true,
            FilterPath:    []string{
        }
        }
        return r.Do(r.ctx, t)
    }
}

// ----- API Definition -----------------------------------------------

// type XPackLicensePostStartTrial func(o ...func(*XPackLicensePostStartTrialRequest)) (*Response, error)

// XPackLicensePostStartTrialRequest configures the X Pack License Post Start Trial API request.
// type XPackLicensePostStartTrialRequest struct {
//     Acknowledge  *bool
//     DocumentType string
//     Pretty       bool
//     Human        bool
//     ErrorTrace   bool
//     FilterPath   []string
//     Header       http.Header
//     ctx          context.Context
// }
// Do executes the request and returns response or error.
func (r XPackLicensePostStartTrialRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path  strings.Builder
        params map[string]string
    )

    method = "POST"

    path.Grow(len("/_xpack/license/start_trial"))
    path.WriteString("/_xpack/license/start_trial")

    params = make(map[string]string)

    if r.Acknowledge != nil {
        params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
    }

    if r.DocumentType != "" {
        params["type"] = r.DocumentType
    }

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

    if r.ErrorTrace {
        params["error_trace"] = "true"
    }

    if len(r.FilterPath) > 0 {
        params["filter_path"] = strings.Join(r.FilterPath, ",")
    }

    req, err := newRequest(method, path.String(), nil)
    if err != nil {
        return nil, err
    }

    q := req.URL.Query()
for k, v := range params {
    q.Set(k, v)
}
req.URL.RawQuery = q.Encode()

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = reqWithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:       res.Body,
    Header:     res.Header,
}
return &response, nil

// WithContext sets the request context.
//
func (f XPackLicensePostStartTrial) WithContext(v context.Context) func(*XPackLicensePostStartTrialRequest) {
    return func(r *XPackLicensePostStartTrialRequest) {
        r.ctx = v
    }
}

// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
//
func (f XPackLicensePostStartTrial) WithAcknowledge(v bool) func(*XPackLicensePostStartTrialRequest) {
    return func(r *XPackLicensePostStartTrialRequest) {

r.Acknowledge = v
}

// WithDocumentType - the type of trial license to generate (default: "trial").
//
// func (f XPackLicensePostStartTrial) WithDocumentType(v string) func(*XPackLicensePostStartTrialRequest) {
// return func(r *XPackLicensePostStartTrialRequest) {
// r.DocumentType = v
// }
// }

// WithPretty makes the response body pretty-printed.
//
// func (f XPackLicensePostStartTrial) WithPretty() func(*XPackLicensePostStartTrialRequest) {
// return func(r *XPackLicensePostStartTrialRequest) {
// r.Pretty = true
// }
// }

// WithHuman makes statistical values human-readable.
//
// func (f XPackLicensePostStartTrial) WithHuman() func(*XPackLicensePostStartTrialRequest) {
// return func(r *XPackLicensePostStartTrialRequest) {
// r.Human = true
// }
// }

// WithErrorTrace includes the stack trace for errors in the response body.
//
// func (f XPackLicensePostStartTrial) WithErrorTrace() func(*XPackLicensePostStartTrialRequest) {
// return func(r *XPackLicensePostStartTrialRequest) {
// r.ErrorTrace = true
// }
// }

// WithFilterPath filters the properties of the response body.
//
// func (f XPackLicensePostStartTrial) WithFilterPath(v ...string) func(*XPackLicensePostStartTrialRequest) {
// return func(r *XPackLicensePostStartTrialRequest) {
// r.FilterPath = v
// }
// }

// WithHeader adds the headers to the HTTP request.
//
// func (f XPackLicensePostStartTrial) WithHeader(h map[string]string) func(*XPackLicensePostStartTrialRequest) {
// return func(r *XPackLicensePostStartTrialRequest) {
// }
// }
if r.Header == nil {
    r.Header = make(http.Header)
}
for k, v := range h {
    r.Header.Add(k, v)
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
//
// func (f XPackLicensePostStartTrial) WithOpaqueID(s string) func(*XPackLicensePostStartTrialRequest) {
// return func(r *XPackLicensePostStartTrialRequest) {
if r.Header == nil {
    r.Header = make(http.Header)
}
    r.Header.Set("X-Opaque-Id", s)
}

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//
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package esapi

import {
    "context"
    "net/http"
    "strings"
}

func newXPackLicenseGetBasicStatusFunc(t Transport) XPackLicenseGetBasicStatus {
    return func(o ...func(*XPackLicenseGetBasicStatusRequest)) (*Response, error) {
        var r = XPackLicenseGetBasicStatusRequest{}
        for _, f := range o {
            f(&r)
        }
        return r.Do(r.ctx, t)
    }
}

// ----- API Definition -----------------------------------------------

// type XPackLicenseGetBasicStatus func(o ...func(*XPackLicenseGetBasicStatusRequest)) (*Response, error)
// XPackLicenseGetBasicStatusRequest configures the X Pack License Get Basic Status API request.

//
type XPackLicenseGetBasicStatusRequest struct {
    Pretty    bool
    Human     bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header

ctx context.Context
}

// Do executes the request and returns response or error.

// func (r XPackLicenseGetBasicStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (method string
        path   strings.Builder
        params map[string]string
    )

    method = "GET"

    path.Grow(len("/_xpack/license/basic_status"))
    path.WriteString("/_xpack/license/basic_status")

    params = make(map[string]string)

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

    if r.ErrorTrace {
        params["error_trace"] = "true"
    }

    if len(r.FilterPath) > 0 {
        params["filter_path"] = strings.Join(r.FilterPath, ",")
    }

    req, err := newRequest(method, path.String(), nil)
    if err != nil {
return nil, err
}

if len(params) > 0 {
  q := req.URL.Query()
  for k, v := range params {
    q.Set(k, v)
  }
  req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
  if len(req.Header) == 0 {
    req.Header = r.Header
  } else {
    for k, vv := range r.Header {
      for _, v := range vv {
        req.Header.Add(k, v)
      }
    }
  }
}

if ctx != nil {
  req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
  return nil, err
}

response := Response{
  StatusCode: res.StatusCode,
  Body:       res.Body,
  Header:     res.Header,
}

return &response, nil

// WithContext sets the request context.
//
func (f XPackLicenseGetBasicStatus) WithContext(v context.Context) func(*XPackLicenseGetBasicStatusRequest) {
  return func(r *XPackLicenseGetBasicStatusRequest) {
    r.ctx = v
  }
}
// WithPretty makes the response body pretty-printed.
//
// func (f XPackLicenseGetBasicStatus) WithPretty() func(*XPackLicenseGetBasicStatusRequest) {
// return func(r *XPackLicenseGetBasicStatusRequest) {
// r.Pretty = true
// }
// }
//

// WithHuman makes statistical values human-readable.
//
// func (f XPackLicenseGetBasicStatus) WithHuman() func(*XPackLicenseGetBasicStatusRequest) {
// return func(r *XPackLicenseGetBasicStatusRequest) {
// r.Human = true
// }
// }
//

// WithErrorTrace includes the stack trace for errors in the response body.
//
// func (f XPackLicenseGetBasicStatus) WithErrorTrace() func(*XPackLicenseGetBasicStatusRequest) {
// return func(r *XPackLicenseGetBasicStatusRequest) {
// r.ErrorTrace = true
// }
// }
//

// WithFilterPath filters the properties of the response body.
//
// func (f XPackLicenseGetBasicStatus) WithFilterPath(v ...string) func(*XPackLicenseGetBasicStatusRequest) {
// return func(r *XPackLicenseGetBasicStatusRequest) {
// r.FilterPath = v
// }
// }
//

// WithHeader adds the headers to the HTTP request.
//
// func (f XPackLicenseGetBasicStatus) WithHeader(h map[string]string) func(*XPackLicenseGetBasicStatusRequest) {
// if r.Header == nil {
// r.Header = make(http.Header)
// }
// for k, v := range h {
// r.Header.Add(k, v)
// }
// }
//
// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
//
// func (f XPackLicenseGetBasicStatus) WithOpaqueID(s string) func(*XPackLicenseGetBasicStatusRequest) {
//   return func(r *XPackLicenseGetBasicStatusRequest) {
if r.Header == nil {
    r.Header = make(http.Header)
}
    r.Header.Set("X-Opaque-Id", s)
}

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//
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package esapi

import (
    "context"
    "net/http"
    "strconv"
    "strings"
)

func newXPackLicensePostStartBasicFunc(t Transport) XPackLicensePostStartBasic {
    return func(o ...func(*XPackLicensePostStartBasicRequest)) (*Response, error) {
        var r = XPackLicensePostStartBasicRequest{
        for _, f := range o {
            f(&r)
        }
        return r.Do(r.ctx, t)
    }

    // ----- API Definition -----------------------------------------------
    // type XPackLicensePostStartBasic func(o ...func(*XPackLicensePostStartBasicRequest)) (*Response, error)
    // XPackLicensePostStartBasicRequest configures the X Pack License Post Start Basic API request.
    // type XPackLicensePostStartBasicRequest struct {
    //   Acknowledge *bool
    //   Pretty   bool
    //   Human    bool
    //   }
    //}
// Do executes the request and returns response or error.
//
// func (r XPackLicensePostStartBasicRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
var (method string
path strings.Builder
params map[string]string
)

method = "POST"

path.Grow(len("/_xpack/license/start_basic"))
path.WriteString("/_xpack/license/start_basic")

params = make(map[string]string)

if r.Acknowledge != nil {
params["acknowledge"] = strconv.FormatBool(*r.Acknowledge)
}

if r.Pretty {
params["pretty"] = "true"
}

if r.Human {
params["human"] = "true"
}

if r.ErrorTrace {
params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
return nil, err
}
if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = reqWithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:       res.Body,
    Header:     res.Header,
}

return &response, nil

// WithContext sets the request context.
//
// func (f XPackLicensePostStartBasic) WithContext(v context.Context func(*XPackLicensePostStartBasicRequest) {
// return func(r *XPackLicensePostStartBasicRequest) { r.ctx = v
// }}
// WithAcknowledge - whether the user has acknowledged acknowledge messages (default: false).
//
func (f XPackLicensePostStartBasic) WithAcknowledge(v bool) func(*XPackLicensePostStartBasicRequest) {
    return func(r *XPackLicensePostStartBasicRequest) {
        r.Acknowledge = &v
    }
}

// WithPretty makes the response body pretty-printed.
//
func (f XPackLicensePostStartBasic) WithPretty() func(*XPackLicensePostStartBasicRequest) {
    return func(r *XPackLicensePostStartBasicRequest) {
        r.Pretty = true
    }
}

// WithHuman makes statistical values human-readable.
//
func (f XPackLicensePostStartBasic) WithHuman() func(*XPackLicensePostStartBasicRequest) {
    return func(r *XPackLicensePostStartBasicRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
//
func (f XPackLicensePostStartBasic) WithErrorTrace() func(*XPackLicensePostStartBasicRequest) {
    return func(r *XPackLicensePostStartBasicRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the response body.
//
func (f XPackLicensePostStartBasic) WithFilterPath(v ...string) func(*XPackLicensePostStartBasicRequest) {
    return func(r *XPackLicensePostStartBasicRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
//
func (f XPackLicensePostStartBasic) WithHeader(h map[string]string) func(*XPackLicensePostStartBasicRequest) {
    return func(r *XPackLicensePostStartBasicRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        }
}
for k, v := range h {
    r.Header.Add(k, v)
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
//
// func (f XPackLicensePostStartBasic) WithOpaqueID(s string) func(*XPackLicensePostStartBasicRequest) {
// return func(r *XPackLicensePostStartBasicRequest) {
// if r.Header == nil {
//     r.Header = make(http.Header)
// }
// r.Header.Set("X-Opaque-Id", s)
// }
//}

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//
// Code generated from specification version 6.8.8: DO NOT EDIT

package esapi

import (
    "context"
    "net/http"
    "strconv"
    "strings"
)

func newXPackLicenseGetFunc(t Transport) XPackLicenseGet {
    return func(o ...func(*XPackLicenseGetRequest)) (*Response, error) {
        var r = XPackLicenseGetRequest{
            for _, f := range o {
                f(&r)
            }
            return r.Do(r.ctx, t)
        }
    }
}

// ----- API Definition -----------------------------------------------

//
// type XPackLicenseGet func(o ...func(*XPackLicenseGetRequest)) (*Response, error)

// XPackLicenseGetRequest configures the X Pack License Get API request.
//
type XPackLicenseGetRequest struct {
    Local *bool
    Pretty   bool
    Human    bool
    ErrorTrace bool
    FilterPath []string

    Header http.Header
}

// Do executes the request and returns response or error.
//
func (r XPackLicenseGetRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (method string
    path   strings.Builder
    params map[string]string
    )

    method = "GET"

    path.Grow(len("/_xpack/license"))
    path.WriteString("/_xpack/license")

    params = make(map[string]string)

    if r.Local != nil {
        params["local"] = strconv.FormatBool(*r.Local)
    }

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

    if r.ErrorTrace {
        params["error_trace"] = "true"
    }

    if len(r.FilterPath) > 0 {
        params["filter_path"] = strings.Join(r.FilterPath, ",")
    }
}

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req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:       res.Body,
    Header:     res.Header,
}

return &response, nil

// WithContext sets the request context.
//
func (f XPackLicenseGet) WithContext(v context.Context) func(*XPackLicenseGetRequest) {
return func(r *XPackLicenseGetRequest) {
    r.ctx = v
}

// WithLocal - return local information, do not retrieve the state from master node (default: false).
//
// func (f XPackLicenseGet) WithLocal(v bool) func(*XPackLicenseGetRequest) {
//    return func(r *XPackLicenseGetRequest) {
//        r.Local = &v
//    }
//}
//
// WithPretty makes the response body pretty-printed.
//
// func (f XPackLicenseGet) WithPretty() func(*XPackLicenseGetRequest) {
//    return func(r *XPackLicenseGetRequest) {
//        r.Pretty = true
//    }
//}
//
// WithHuman makes statistical values human-readable.
//
// func (f XPackLicenseGet) WithHuman() func(*XPackLicenseGetRequest) {
//    return func(r *XPackLicenseGetRequest) {
//        r.Human = true
//    }
//}
//
// WithErrorTrace includes the stack trace for errors in the response body.
//
// func (f XPackLicenseGet) WithErrorTrace() func(*XPackLicenseGetRequest) {
//    return func(r *XPackLicenseGetRequest) {
//        r.ErrorTrace = true
//    }
//}
//
// WithFilterPath filters the properties of the response body.
//
// func (f XPackLicenseGet) WithFilterPath(v ...string) func(*XPackLicenseGetRequest) {
//    return func(r *XPackLicenseGetRequest) {
//        r.FilterPath = v
//    }
//}
//
// WithHeader adds the headers to the HTTP request.
//
// func (f XPackLicenseGet) WithHeader(h map[string]string) func(*XPackLicenseGetRequest) {


return func(r *XPackLicenseGetRequest) {
    if r.Header == nil {
        r.Header = make(http.Header)
    }
    for k, v := range h {
        r.Header.Add(k, v)
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
/
func (f XPackLicenseGet) WithOpaqueID(s string) func(*XPackLicenseGetRequest) {
    return func(r *XPackLicenseGetRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        r.Header.Set("X-Opaque-Id", s)
    }
}

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package esapi

import (  "context"  "net/http"  "strings"
)

cfunc newXPackLicenseGetTrialStatusFunc(t Transport) XPackLicenseGetTrialStatus {
  return func(o ...func(*XPackLicenseGetTrialStatusRequest)) (*Response, error) {
    var r = XPackLicenseGetTrialStatusRequest{}
    for _, f := range o {
      f(&r)
func (r XPackLicenseGetTrialStatusRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
    var (
        method string
        path   strings.Builder
        params map[string]string
    )

    method = "GET"

    path.Grow(len("/_xpack/license/trial_status"))
    path.WriteString("/_xpack/license/trial_status")

    params = make(map[string]string)

    if r.Pretty {
        params["pretty"] = "true"
    }

    if r.Human {
        params["human"] = "true"
    }

    return r.Do(r.ctx, t)
}
if r.ErrorTrace {
    params["error_trace"] = "true"
}

if len(r.FilterPath) > 0 {
    params["filter_path"] = strings.Join(r.FilterPath, ",")
}

req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = req.WithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:      res.Body,
    Header:    res.Header,
}
return &response, nil
}

// WithContext sets the request context.
//
func (f XPackLicenseGetTrialStatus) WithContext(v context.Context) func(*XPackLicenseGetTrialStatusRequest) {
    return func(r *XPackLicenseGetTrialStatusRequest) {
        r.ctx = v
    }
}

// WithPretty makes the response body pretty-printed.
//
func (f XPackLicenseGetTrialStatus) WithPretty() func(*XPackLicenseGetTrialStatusRequest) {
    return func(r *XPackLicenseGetTrialStatusRequest) {
        r.Pretty = true
    }
}

// WithHuman makes statistical values human-readable.
//
func (f XPackLicenseGetTrialStatus) WithHuman() func(*XPackLicenseGetTrialStatusRequest) {
    return func(r *XPackLicenseGetTrialStatusRequest) {
        r.Human = true
    }
}

// WithErrorTrace includes the stack trace for errors in the response body.
//
func (f XPackLicenseGetTrialStatus) WithErrorTrace() func(*XPackLicenseGetTrialStatusRequest) {
    return func(r *XPackLicenseGetTrialStatusRequest) {
        r.ErrorTrace = true
    }
}

// WithFilterPath filters the properties of the response body.
//
func (f XPackLicenseGetTrialStatus) WithFilterPath(v ...string) func(*XPackLicenseGetTrialStatusRequest) {
    return func(r *XPackLicenseGetTrialStatusRequest) {
        r.FilterPath = v
    }
}

// WithHeader adds the headers to the HTTP request.
//
func (f XPackLicenseGetTrialStatus) WithHeader(h map[string]string) func(*XPackLicenseGetTrialStatusRequest) {

return func(r *XPackLicenseGetTrialStatusRequest) {
    if r.Header == nil {
        r.Header = make(http.Header)
    }
    for k, v := range h {
        r.Header.Add(k, v)
    }
}

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
//
func (f XPackLicenseGetTrialStatus) WithOpaqueID(s string) func(*XPackLicenseGetTrialStatusRequest) {
    return func(r *XPackLicenseGetTrialStatusRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        r.Header.Set("X-Opaque-Id", s)
    }
}

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// Code generated from specification version 6.8.8: DO NOT EDIT

package esapi

import {
    "context"
    "net/http"
    "strings"
}

func newXPackLicenseDeleteFunc(t Transport) XPackLicenseDelete {
    return func(o ...func(*XPackLicenseDeleteRequest)) (*Response, error) {
        var r = XPackLicenseDeleteRequest{
            for _, f := range o {
                f(&r)
            }
            return r.Do(r.ctx, t)
        }
    }
}

// ----- API Definition -------------------------------------------------------
//
type XPackLicenseDelete func(o ...func(*XPackLicenseDeleteRequest)) (*Response, error)

// XPackLicenseDeleteRequest configures the X Pack License Delete API request.
//
// type XPackLicenseDeleteRequest struct {
// Pretty     bool
// Human      bool
// ErrorTrace bool
// FilterPath []string
//}
//
// Do executes the request and returns response or error.
//
// func (r XPackLicenseDeleteRequest) Do(ctx context.Context, transport Transport) (*Response, error) {
// var (
// method string
// path  strings.Builder
// params map[string]string
// )
//
// method = "DELETE"
//
// path.Grow(len("/_xpack/license"))
// path.WriteString("/_xpack/license")
//
// params = make(map[string]string)
//
// if r.Pretty {
// params["pretty"] = "true"
// }
//
// if r.Human {
// params["human"] = "true"
// }
//
// if r.ErrorTrace {
// params["error_trace"] = "true"
// }
//
// if len(r.FilterPath) > 0 {
// params["filter_path"] = strings.Join(r.FilterPath, ",")
// }
//
// req, err := newRequest(method, path.String(), nil)
if err != nil {
    return nil, err
}

if len(params) > 0 {
    q := req.URL.Query()
    for k, v := range params {
        q.Set(k, v)
    }
    req.URL.RawQuery = q.Encode()
}

if len(r.Header) > 0 {
    if len(req.Header) == 0 {
        req.Header = r.Header
    } else {
        for k, vv := range r.Header {
            for _, v := range vv {
                req.Header.Add(k, v)
            }
        }
    }
}

if ctx != nil {
    req = reqWithContext(ctx)
}

res, err := transport.Perform(req)
if err != nil {
    return nil, err
}

response := Response{
    StatusCode: res.StatusCode,
    Body:       res.Body,
    Header:     res.Header,
}

return &response, nil

// WithContext sets the request context.

// func (f XPackLicenseDelete) WithContext(v context.Context) func(*XPackLicenseDeleteRequest) {
//     return func(r *XPackLicenseDeleteRequest) {
//         r.ctx = v
//     }
}
// WithPretty makes the response body pretty-printed.
//
// func (f XPackLicenseDelete) WithPretty() func(*XPackLicenseDeleteRequest) {
// return func(r *XPackLicenseDeleteRequest) {
// r.Pretty = true
// }
// }
//

// WithHuman makes statistical values human-readable.
//
// func (f XPackLicenseDelete) WithHuman() func(*XPackLicenseDeleteRequest) {
// return func(r *XPackLicenseDeleteRequest) {
// r.Human = true
// }
// }
//

// WithErrorTrace includes the stack trace for errors in the response body.
//
// func (f XPackLicenseDelete) WithErrorTrace() func(*XPackLicenseDeleteRequest) {
// return func(r *XPackLicenseDeleteRequest) {
// r.ErrorTrace = true
// }
// }
//

// WithFilterPath filters the properties of the response body.
//
// func (f XPackLicenseDelete) WithFilterPath(v ...string) func(*XPackLicenseDeleteRequest) {
// return func(r *XPackLicenseDeleteRequest) {
// r.FilterPath = v
// }
// }
//

// WithHeader adds the headers to the HTTP request.
//
// func (f XPackLicenseDelete) WithHeader(h map[string]string) func(*XPackLicenseDeleteRequest) {
// return func(r *XPackLicenseDeleteRequest) {
// if r.Header == nil {
// r.Header = make(http.Header)
// }
// for k, v := range h {
// r.Header.Add(k, v)
// }
// }
// }
//

// WithOpaqueID adds the X-Opaque-Id header to the HTTP request.
//
func (f XPackLicenseDelete) WithOpaqueID(s string) func(*XPackLicenseDeleteRequest) {
    return func(r *XPackLicenseDeleteRequest) {
        if r.Header == nil {
            r.Header = make(http.Header)
        }
        r.Header.Set("X-Opaque-Id", s)
    }
}

1.1267 py3-pip 20.1.1-r0

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contextlib2 is a derivative of the contextlib module distributed by the PSF
as part of the Python standard library. According, it is itself redistributed
under the PSF license (reproduced in full below). As the contextlib module
was added only in Python 2.5, the licenses for earlier Python versions are
not applicable and have not been included.

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
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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 that included the contextlib module.

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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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c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
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patch was accepted into Ruby.

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* He had maintained the VMS support on 2003-2004.

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* net/pop 
* net/smtp 
* racc 
* ripper 
* strscan

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arton
* He is the distributor of ActiveScriptRuby and experimental 1.9.0-x installers for win32.
* Wrote patches for win32ole, gc.c, tmpdir.rb

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* Added IO#pread and IO#pwrite.

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* M17N

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* parsedate (1.8)
* He ported rational.rb and complex.rb, which 1.8 contains, into rational.c and complex.c of 1.9.

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Shin-ichiro HARA
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* a patch for numeric.c

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* a patch for proc.c

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  * SMTP-TLS support for net/smtp.
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  * ri
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* a patch for dir.c
* documentation

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"incorporate"
* a patch for sprintf.c

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  * complex.rb (1.8)
  * e2mmmap.rb
  * forwardable.rb
  * irb
  * mathn
  * matrix.rb
  * mutex_m.rb
  * rational.rb (1.8)
  * sync.rb
  * shell/*
  * thwait.rb
  * tracer.rb

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* missing/dup2.c

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* a patch for net/ftp

Lyle Johnson
* patches for nkf, bigdecimal, numeric.c

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* He wrote supports for some encodings.

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* He wrote getoptlong.rb

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* a patch for shellwords.rb

Wataru Kimura
* a patch for configure.in

Michael Klishin
* patch for make help.

Noritada Kobayashi
* a patch for optparse.rb

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* patch for tool/file2lastrev.rb.

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  * net/imap

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* committer
* Ruby itself, most of Ruby.
* He is the maintainer of:
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  * timeout
  * gdbm
  * sdbm

Konrad Meyer
* documentation

Mih Software
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Todd C. Miller
* missing/strlcat.c
* missing/strlcpy.c

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* regex.c was fixed with based on his Emacs21 patch.

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moonwolf
* a patch for REXML, xmlrpc

Hiroshi Moriyama
* a patch for yaml.
Kyosuke Morohashi
* a patch for gem_prelude.rb

Kenta Murata
* patches for json, bignum.c

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  * generator (1.8)
  * enumerator (1.8)
  * set
  * ipaddr.rb
  * digest/*
  * syslog
* He is the branch maintainer of ruby_1_8, the release manager of 1.8 series.

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* He is the maintainer of tk/*

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* He wrote and is the maintainer of:
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  * stringio
  * io/wait
  * iconv

Satoshi Nakagawa
* patches for util.c

Narihiro Nakamura (nari)
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* working at GC

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* He is the maintainer of:
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  * logger.rb
  * soap/* (1.8)
* wsdl/* (1.8)
* xsd/* (1.8)

NAKAMURA, Usaku (usa)
* committer
* a.k.a. unak
* He is the maintainer of mswin32 and mswin64 support.

NARUSE, Yui (naruse)
* committer
* a.k.a. "nurse"
* Did much upon m17n.
* He is the maintainer of:
  * json
  * nkf

Christian Neukirchen
* a patch for webrick/httputils

Michael Neumann (mneumann)
* committer
* He is the maintainer of
  * xmlrpc (1.8)
  * gserver (1.8)

NISHIO Hirokazu
* wrote a patch for CVE-2010-0541

Kazuhiro NISHIYAMA (kazu)
* committer
* a.k.a. znz

Go Noguchi

Martin Nordholts
* misc/rdebug.el

nmu
* a patch for socket

== O

okkez
* He is a sysop of the Ruby Reference Manual Renewal Project.
* fixed ipaddr.rb, ext/etc

Haruhiko Okumura
* some of missing/* is based on his book:
* missing/erf.c
* missing/lgamma_r.c
* missing/tgamma.c

OMAE, jun
* a patch for debug.rb

Eugene Ossintsev
* documentation

== P

Heesob Park
* a patch for win32/win32.c.

pegacorn
* a patch for instruby.rb

== Q

== R

Gaston Ramos
* documentation

The Regents of the University of California
* missing/crypt.c
* missing/vsnprintf.c

Sam Roberts
* patch for socket
* documentation

Michal Rokos (michal)
* committer
* He was the maintainer of DJGPP support.

rubikitch
* a patch for io.c

Marcus Rueckert
* a patch for mkconfig.rb.

Run Paint Run Run
* patch for enc/unicode.c
* documentation

Sean Russell (ser)
* committer
* He wrote and is the maintainer of REXML.

== S

Kazuo Saito (ksaito)
* committer
* M17N

Tadashi Saito
* patches for test/ruby/test_math.rb, thread_*.c, bignum.c
* working upon BigDecimal.
* did much upon documentation

Masahiro Sakai
* a patch for io.c

Laurent Sansonetti
* a patch for tool/ytab.sed

Jeff Saracco
* documentation

Koichi Sasada (ko1)
* committer
* He wrote YARV.

Hugh Sasse
* a patch for net/http
* documentation

Charlie Savage
* a patch for win32/Makefile.sub

Michael Scholz
* a patch for ruby-mode.el

Arthur Schreiber
* patch for net/http and rdoc.

Masatoshi SEKI (seki)
* committer
* He wrote and is the maintainer of:
  * drb*/
  * erb
  * rinda

Roman Shterenzon
* a patch for open-uri.

Kent Siblev

Gavin Sinclair (gsinclair)
* committer

John W. Small
* He wrote gserver.rb

Yuki Sonoda (yugui)
* committer
* She is the maintainer of man/* manual pages and is the release manager of 1.9 series.
* She wrote prime.rb.
* A developer and a sysop of redmine.ruby-lang.org.

SOUMA, Yutaka
* a patch for pack.c.

Tatsuki Sugiura
* WebDAV support for net/http

Masaki Suketa (suke)
* committer
* He is the maintainer of win32ole

sheepman
* patches for ruby.c, thread.c, stringio, enum.c, webrick, net/http

Siena. (siena)
* committer

Kirill A. Shutemov
* a patch for parse.y

Darren Smith
* a patch for golf_prelude.rb

Richard M. Stallman
* missing/alloca.c

Robin Stocker
* documentation

Joshua Stowers
* a patch for array.c

Marcus Stollsteimer (stomar)
Adam Strzelecki
* a maintainer of www.ruby-lang.org
* patches for cgi (HTML5 tag maker), numeric.c, bigdecimal, ostruct.rb, prime.rb, and others
* documentation

Masashi Sumi
* a patch for compile.c

Eric Sunshine
* NeXT OpenStep, Rhapsody support

Kouhei Sutou (kou)
* committer
* He wrote and is the maintainer of rss/*

David Symonds
* documentation

== T

TAKANO Mitsuhiro (takano32)
* committer
* He is the maintainer of IA-64 support.
* BigDecimal

TAKAO, Kouji (kouji)
* committer
* He is the maintainer of readline.

Nathaniel Talbott (ntalbott)
* committer
* He was the maintainer of test/unit, runit, rubyunit.

TANAKA, Akira (akr)
* committer
* Did much upon m17n.
* And he is the maintainer of:
  * open-uri
  * pathname
  * pp
  * resolv-replace
  * resolv
  * time
  * tsort
Takaaki Tateishi (ttate)
* committer
* He was the maintainer of dl

Technorama Ltd. (technoroma)
* committer
* openssl

Andrew Thompson
* a patch for socket.c IRIX support.

Dave Thomas (dave)
* committer
* a.k.a. the Pragmatic Programmer.
* He wrote rdoc.

Tietew
* patches for win32 support

Masahiro Tomita
* a patch for cgi.rb

Jakub Travnik
* a patch for eval.c

Tom Truscott
* missing/crypt.c

== U

UEDA, Satoshi
* a patch for uri

Takaaki Uematsu (uema2)
* committer
* He was the maintainer of WinCE support.

UENO, Katsuhiro (katsu)
* committer
* He is the maintainer of zlib

Hajimu UMEMOTO
* He wrote ipaddr.rb

URABE, Shyouhei (shyouhei)
* committer
* a.k.a. mput.
* He is the branch maintainer of ruby_1_8_6 and ruby_1_8_7
* and is the release manager of 1.8.x-pXXX.

== V

Joel VanderWerf
* a patch for numeric.c

Peter Vanbroekhoven

Corinna Vinschen

== W

wanabe (wanabe)
* committer
* fixed YARV and Oniguruma.

Chun Wang
* a patch for time.rb

WATANABE, Hirofumi (eban)
* committer
* He is the maintainer of
  * ftools (1.8)
  * tmpdir
  * un
  * Win32API

WATANABE, Tetsuya
* a patch for ruby.c

William Webber (wew)
* committer

Jim Weirich (jim)
* committer
* He wrote Rake.

Nathan Weizenbaum
* fixed misc/ruby-mode.el.

why the lukky stiff (why)
* committer
* He is the maintainer of syck

Caley Woods
* documentation
Gary Wright
* documentation

== X

== Y

Akira Yamada (akira)
* committer
* He is the maintainer of ruby related packages at Debian project.

Keita Yamaguchi
* patches for enum.c, parse.y
* documentation

Hirokazu Yamamoto (ocean)
* committer

Hirotaka Yoshioka
* a patch for improving SEGV handling

== Z

Aristarkh A Zagorodnikov
* a patch for io.c

Alexander Zavorine
* committer
* He is the maintainer for Symbian OS.

Chiyuan Zhang
* a patch for misc/ruby-mode.el.

Dee Zsombor (zunda)
* a patch for thread_pthread.c

Dan Zwell
* a patch for net/pop
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1.

2.

a.
b.

c.

d.

3.

a.

b.

c.

d.

4.

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include/ruby/onigmo.h::
include/ruby/oniguruma.h::
regcomp.c::
regenc.c::
regenc.h::
regerror.c::
regint.h::
regparse.c::
regparse.h::
enc/ascii.c::
enc/big5.c::
enc/cp949.c::
enc/emacs_mule.c::
enc/encdb.c::
enc/euc_jp.c::
enc/euc_kr.c::
enc/euc_tw.c::
enc/gb18030.c::
enc/gb2312.c::
enc/gbk.c::
enc/iso_8859_1.c::
enc/iso_8859_10.c::
enc/iso_8859_11.c::
enc/iso_8859_13.c::
enc/iso_8859_14.c::
enc/iso_8859_15.c::
enc/iso_8859_16.c::
enc/iso_8859_2.c::
enc/iso_8859_3.c::
enc/iso_8859_4.c::
enc/iso_8859_5.c::
enc/iso_8859_6.c::
enc/iso_8859_7.c::
enc/iso_8859_8.c::
enc/iso_8859_9.c::
enc/koi8_r.c::
enc/koi8_u.c::
enc/shift_jis.c::
enc/unicode.c::
enc/us_ascii.c::
enc/utf_16be.c::
enc/utf_16le.c::
enc/utf_32be.c::
enc/utf_32le.c::
enc/utf_8.c::
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* https://github.com/k-takata/Onigmo/
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enc/trans/GB/UCS%GB12345.src::
enc/trans/GB/GB2312%UCS.src::
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enc/trans/JIS/JISX0208@1990%UCS.src::
enc/trans/JIS/JISX0212%UCS.src::
enc/trans/JIS/UCS%JISX0201-KANA.src::
enc/trans/JIS/UCS%JISX0208@1990.src::
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enc/trans/JIS/UCS@BMP%JISX0213-2.src::
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missing/mt19937.c::

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A C-program for MT19937, with initialization improved 2002/2/10.
Coded by Takuji Nishimura and Makoto Matsumoto.
This is a faster version by taking Shawn Cokus's optimization,
Matthe Bellew's simplification, Isaku Wada's real version.

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

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Any feedback is very welcome.
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missing/procstat_vm.c:::

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vsnprintf.c:::

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include/ruby/st.h::
missing/acosh.c::
missing/alloca.c::
missing/dup2.c::
missing/erf.c::
missing/finite.c::
missing/hypot.c::
missing/isinf.c::
missing/isnan.c::
missing/lgamma_r.c::
missing/memcmp.c::
missing/memmove.c::
missing/strchr.c::
missing/strerror.c::
missing/strstr.c::
missing/tgamma.c::
ext/date/date_strftime.c::
ext/digest/sha1/sha1.c::
ext/digest/sha1/sha1.h::
ext/sdbm/_sdbm.c::
ext/sdbm/sdbm.h::

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### 1.1271 protobuf 1.26.0-rc.1

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1.1274 activesupport 6.0.3.4

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AES in libhcrypto

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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>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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* /opt/cola/permits/1257321187_1642800602.39/0/invokebinder-1-11-sources-
  jar/com/headius/invokebinder/transform/InvalidTransformException.java
* /opt/cola/permits/1257321187_1642800602.39/0/invokebinder-1-11-sources-
  jar/com/headius/invokebinder/transform/Insert.java
* /opt/cola/permits/1257321187_1642800602.39/0/invokebinder-1-11-sources-
  jar/com/headius/invokebinder/transform/Convert.java
* /opt/cola/permits/1257321187_1642800602.39/0/invokebinder-1-11-sources-
1.1287 jline-remote-ssh 3.12.1
1.1287.1 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/1260642830_1643189489.85/0/jline-remote-ssh-3-12-1-sources-jar/META-INF/maven/org.jline/jline-remote-ssh/pom.xml
No license file was found, but licenses were detected in source scan.

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 */

Found in path(s):
* /opt/cola/permits/1260642830_1643189489.85/0/jline-remote-ssh-3-12-1-sources-jar/org/jline/builtins/ssh/Ssh.java
* /opt/cola/permits/1260642830_1643189489.85/0/jline-remote-ssh-3-12-1-sources-jar/org/jline/builtins/ssh/ShellFactoryImpl.java
* /opt/cola/permits/1260642830_1643189489.85/0/jline-remote-ssh-3-12-1-sources-jar/org/jline/builtins/ssh/ShellCommand.java

1.1288 go-openapi-spec 0.20.6
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package spec

import (
    "encoding/json"
    "testing"

    "github.com/stretchr/testify/assert"
)

var license = License{
    LicenseProps:     LicenseProps{Name: "the name", URL: "the url"},
    VendorExtensible: VendorExtensible{Extensions: map[string]interface{}{"x-license": "custom term"}}}

const licenseJSON = `{
    "name": "the name",
    "url": "the url",
    "x-license": "custom term"
}`

func TestIntegrationLicense(t *testing.T) {

    // const licenseYAML = "name: the name\nurl: the url"

    b, err := json.MarshalIndent(license, "", "\t")
    if assert.NoError(t, err) {
        assert.Equal(t, licenseJSON, string(b))
    }

    actual := License{}
    err = json.Unmarshal([]byte(licenseJSON), &actual)
    if assert.NoError(t, err) {
        assert.EqualValues(t, license, actual)
    }

    // Copyright 2015 go-swagger maintainers
    //
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// you may not use this file except in compliance with the License.
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package spec

import (
    "encoding/json"
    "github.com/go-openapi/swag"
)

// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    LicenseProps
    VendorExtensible
}

// LicenseProps holds the properties of a License object
type LicenseProps struct {
    Name string `json:"name,omitype"`
    URL  string `json:"url,omitype"`
}

// UnmarshalJSON hydrates License from json
func (l *License) UnmarshalJSON(data []byte) error {
    if err := json.Unmarshal(data, &l.LicenseProps); err != nil {
        return err
    }
    return json.Unmarshal(data, &l.VendorExtensible)
}

// MarshalJSON produces License as json
func (l License) MarshalJSON() ([]byte, error) {
    b1, err := json.Marshal(l.LicenseProps)
    if err != nil {
        return nil, err
    }
    b2, err := json.Marshal(l.VendorExtensible)
    if err != nil {
        return nil, err
    }
    return b1, b2
}
if err != nil {
    return nil, err
}
return swag.ConcatJSON(b1, b2), nil

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1.1289 libgl1 1.3.2-1~ubuntu0.20.04.2

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1.1290 libpsl 0.20.2-2
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[metadata]
name = MarkupSafe
version = attr: markupsafe.__version__
url = https://palletsprojects.com/p/markupsafe/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://markupsafe.palletsprojects.com/
  Changes = https://markupsafe.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/markupsafe/
  Issue Tracker = https://github.com/pallets/markupsafe/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = Safely add untrusted strings to HTML/XML markup.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
Development Status :: 5 - Production/Stable
Environment :: Web Environment
Intended Audience :: Developers
License :: OSI Approved :: BSD License
Operating System :: OS Independent
Programming Language :: Python
Topic :: Internet :: WWW/HTTP :: Dynamic Content
Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
package_dir = = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings =
error

[coverage:run]
branch = True
source =
markupsafe
tests

[coverage:paths]
source =
src
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80

[mypy]
files = src/markupsafe
python_version = 3.7

---

Open Source Used In cnBR Operations Hub 22.2 13214
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1288546271_1649055323.54/0/markupsafe-2.1.1-tar-gz/MarkupSafe-2.1.1/setup.cfg
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Metadata-Version: 2.1
Name: MarkupSafe
Version: 2.1.1
Summary: Safely add untrusted strings to HTML/XML markup.
Home-page: https://palletsprojects.com/p/markupsafe/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
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Project-URL: Documentation, https://markupsafe.palletsprojects.com/
Project-URL: Changes, https://markupsafe.palletsprojects.com/changes/
Project-URL: Twitter, https://twitter.com/PalletsTeam
Project-URL: Chat, https://discord.gg/pallets
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
MarkupSafe

----------

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML. Characters that have special meanings are replaced so that they display as the actual characters. This mitigates injection attacks, meaning untrusted user input can safely be displayed on a page.

Installing

----------

Install and update using `pip`:

.. code-block:: text

    pip install -U MarkupSafe


Examples

--------

.. code-block:: pycon

    >>> from markupsafe import Markup, escape

    >>> # escape replaces special characters and wraps in Markup
    >>> escape("<script>alert(document.cookie);</script>")
    Markup('<script>alert(document.cookie);</script>')

    >>> # wrap in Markup to mark text "safe" and prevent escaping
    >>> Markup("<strong>Hello</strong>")
    Markup('<strong>Hello</strong>')

    >>> escape(Markup("<strong>Hello</strong>"))
    Markup('<strong>Hello</strong>')

    >>> # Markup is a str subclass
    >>> # methods and operators escape their arguments
    >>> template = Markup("Hello <em>{name}</em>")
The Pallets organization develops and supports MarkupSafe and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, "please donate today".

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Links
-----

- Documentation: https://markupsafe.palletsprojects.com/
- Changes: https://markupsafe.palletsprojects.com/changes/
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**1.1292 fsnotify 1.4.9**

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  jar/org/jline/builtins/telnet/ConnectionFilter.java
* /opt/cola/permits/1258291769_1643053068.64/0/jline-remote-telnet-3-14-1-sources-
  jar/org/jline/builtins/telnet/ConnectionListener.java
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jar/org/jline/builtins/telnet/ConnectionEvent.java
* /opt/cola/permits/1258291769_1643053068.64/0/jline-remote-telnet-3-14-1-sources-
jar/org/jline/builtins/telnet/ConnectionManager.java
* /opt/cola/permits/1258291769_1643053068.64/0/jline-remote-telnet-3-14-1-sources-
jar/org/jline/builtins/telnet/PortListener.java
* /opt/cola/permits/1258291769_1643053068.64/0/jline-remote-telnet-3-14-1-sources-
jar/org/jline/builtins/telnet/Connection.java
* /opt/cola/permits/1258291769_1643053068.64/0/jline-remote-telnet-3-14-1-sources-
jar/org/jline/builtins/telnet/TelnetIO.java
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jar/org/jline/builtins/telnet/ConnectionData.java

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1.1307 python-setuptools 47.0.0
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1.1309 grpc-go 1.38.0

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37e1c6afe023

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1.1311 slf4j-log4j 1.7.32
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    #
    # For testing:
    #
    sub main::diag {
        warn join("", @_, "n");
    }

    print join(" ", merge(
    #print Data::Dumper -> Dump([
    #    merge(
    #        #![qw(a b c d h i j)], # ancestor
    #        #![qw(a b c d f h i j)], # left
    #        #![qw(a b c e g )]), # right
    [qw(0 1 2 3 4 7 9 b)],
    [qw(0 6 a b)],
    [qw(0 1 2 3 5 8 a b)],
    ##
    { CONFLICT => sub ($$) { (}
Algorithm::Merge - Three-way merge and diff

use Algorithm::Merge qw(merge diff3 traverse_sequences3);

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
});

@merged = merge(\@ancestor, \@a, \@b, {
    CONFLICT => sub { }
}, $key_generation_function);

 perror join(" ", @{
 #    [qw(0 1 @ < 3 | # > 6)]
 # }), "n";

1;
__END__
@trav = traverse_sequences3($@ancestor, $@a, $@b, { # callbacks });

@trav = traverse_sequences3($@ancestor, $@a, $@b, { # callbacks }, $key_generation_function);

$strav = traverse_sequences3($@ancestor, $@a, $@b, { # callbacks });

$strav = traverse_sequences3($@ancestor, $@a, $@b, { # callbacks }, $key_generation_function);

=head1 USAGE

This module complements L<Algorithm::Diff> by providing three-way merge and diff functions.

In this documentation, the first list to C<diff3>, C<merge>, and C<traverse_sequences3> is called the `original' list. The second list is the `left' list. The third list is the `right' list.

The optional key generation arguments are the same as in L<Algorithm::Diff>. See L<Algorithm::Diff> for more information.

=head2 diff3

Given references to three lists of items, C<diff3> performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k
merge: a b d e g i j k

we have the following result from diff3:

```plaintext
[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
[ 'u', 'e', 'e', 'e' ],
[ 'r', 'f', 'f', undef ],
[ 'o', 'h', 'g', 'h' ],
[ 'u', 'i', 'i', 'i' ],
[ 'o', undef, 'j', 'j' ],
[ 'u', 'k', 'k', 'k' ]
```

The first element in each row is the array with the difference:

c - conflict (no two are the same)
l - left is different
o - original is different
r - right is different
u - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are C<@ancestor>, C<@a>, and C<@b>, respectively).

=head2 merge

Given references to three lists of items, C<merge> performs a three-way merge. The C<merge> function uses the C<diff3> function to do most of the work.

The only callback currently used is C<CONFLICT> which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default C<CONFLICT> callback returns the following:

```plaintext
q{<!--- ------ START CONFLICT ------ -->},
(@left),
q{<!--- -------------------------- -->},
(@right),
q{<!--- ------ END CONFLICT ------ -->},
```
This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

=item NO_CHANGE

This is called if all three sequences have the same element at the current position. The arguments are the current positions within each sequence, the first argument being the current position within the first sequence.

=item A_DIFF

This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

=item B_DIFF

This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second
sequence is different than the corresponding element in the other two
sequences, but the other two sequences have corresponding elements.

=item C_DIFF

This is called if the third sequence is different than the other two
sequences at the current position.
This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the
third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that
corresponds to the elements at the given positions in the first and
second sequences.

If three arguments, then the element at the given position in the third
sequence is different than the corresponding element in the other two
sequences, but the other two sequences have corresponding elements.

=item CONFLICT

This is called if all three sequences have different elements at the
current position. The three arguments are the current positions within
each sequence.

=back 4

=head1 BUGS

Most assuredly there are bugs. If a pattern similar to the above
example does not work, send it to <jsmith@cpan.org> or report it on
<http://rt.cpan.org/>, the CPAN bug tracker.

L<Algorithm::Diff::Diff>’s implementation of
C<traverse_sequences> may not be symmetric with respect to the input
sequences if the second and third sequence are of different lengths.
Because of this, C<traverse_sequences3> will calculate the diffs of
the second and third sequences as passed and swapped. If the differences
are not the same, it will issue an `Algorithm::Diff::diff is not symmetric
for second and third sequences...' warning. It will try to handle
this, but there may be some cases where it can't.

=head1 SEE ALSO

L<Algorithm::Diff>.

=head1 AUTHOR
James G. Smith, <jsmith@cpan.org>

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NAME
  Algorithm::Merge - Three-way merge and diff

SYNOPSIS
  use Algorithm::Merge qw(merge diff3 traverse_sequences3);

  @merged = merge(\@ancestor, \@a, \@b, {
      CONFLICT => sub { }  
    });

  @merged = merge(\@ancestor, \@a, \@b, {
      CONFLICT => sub { }  
    }, $key_generation_function);

  $merged = merge(\@ancestor, \@a, \@b, {
      CONFLICT => sub { }  
    });

  $merged = merge(\@ancestor, \@a, \@b, {
      CONFLICT => sub { }  
    }, $key_generation_function);

  @diff = diff3(\@ancestor, \@a, \@b);

  @diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

  $diff = diff3(\@ancestor, \@a, \@b);

  $diff = diff3(\@ancestor, \@a, \@b, $key_generation_function);

  @trav = traverse_sequences3(\@ancestor, \@a, \@b, {
      # callbacks
    });
@trav = traverse_sequences3(\@ancestor, \@a, \@b, { # callbacks }, $key_generation_function);

$trav = traverse_sequences3(\@ancestor, \@a, \@b, { # callbacks });

$trav = traverse_sequences3(\@ancestor, \@a, \@b, { # callbacks }, $key_generation_function);

USAGE
This module complements Algorithm::Diff by providing three-way merge and diff functions.

In this documentation, the first list to "diff3", "merge", and "traverse_sequences3" is called the 'original' list. The second list is the 'left' list. The third list is the 'right' list.

The optional key generation arguments are the same as in Algorithm::Diff. See Algorithm::Diff for more information.

diff3
Given references to three lists of items, "diff3" performs a three-way difference.

This function returns an array of operations describing how the left and right lists differ from the original list. In scalar context, this function returns a reference to such an array.

Perhaps an example would be useful.

Given the following three lists,

original: a b c e f h i k
left: a b d e f g i j k
right: a b c d e h i j k

merge: a b d e g i j k

we have the following result from diff3:

[ 'u', 'a', 'a', 'a' ],
[ 'u', 'b', 'b', 'b' ],
[ 'l', 'c', undef, 'c' ],
[ 'o', undef, 'd', 'd' ],
The first element in each row is the array with the difference:

- **c** - conflict (no two are the same)
- **l** - left is different
- **o** - original is different
- **r** - right is different
- **u** - unchanged

The next three elements are the lists from the original, left, and right arrays respectively that the row refers to (in the synopsis, these are @ancestor, @a, and @b, respectively).

### merge

Given references to three lists of items, "merge" performs a three-way merge. The "merge" function uses the "diff3" function to do most of the work.

The only callback currently used is "CONFLICT" which should be a reference to a subroutine that accepts two array references. The first array reference is to a list of elements from the left list. The second array reference is to a list of elements from the right list. This callback should return a list of elements to place in the merged list in place of the conflict.

The default "CONFLICT" callback returns the following:

```
q{ <!-- ------ START CONFLICT ------ --> },
(@left),
q{ <!-- ---------------------------- --> },
(@right),
q{ <!-- ------  END  CONFLICT ------ --> },
```

### traverse_sequences3

This is the workhorse function that goes through the three sequences and calls the callback functions.

The following callbacks are supported.

**NO_CHANGE**

This is called if all three sequences have the same element at the current position. The arguments are the current positions within
each sequence, the first argument being the current position within the first sequence.

A_DIFF
This is called if the first sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the first sequence is not in either of the other two sequences.

If two arguments, then there is no element in the first sequence that corresponds to the elements at the given positions in the second and third sequences.

If three arguments, then the element at the given position in the first sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

B_DIFF
This is called if the second sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the second sequence is not in either of the other two sequences.

If two arguments, then there is no element in the second sequence that corresponds to the elements at the given positions in the first and third sequences.

If three arguments, then the element at the given position in the second sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

C_DIFF
This is called if the third sequence is different than the other two sequences at the current position. This callback will be called with one, two, or three arguments.

If one argument, then only the element at the given position from the third sequence is not in either of the other two sequences.

If two arguments, then there is no element in the third sequence that corresponds to the elements at the given positions in the first and second sequences.
If three arguments, then the element at the given position in the third sequence is different than the corresponding element in the other two sequences, but the other two sequences have corresponding elements.

CONFLICT
This is called if all three sequences have different elements at the current position. The three arguments are the current positions within each sequence.

BUGS
Most assuredly there are bugs. If a pattern similar to the above example does not work, send it to <jsmith@cpan.org> or report it on <http://rt.cpan.org/>, the CPAN bug tracker.

Algorithm::Diff's implementation of "traverse_sequences" may not be symmetric with respect to the input sequences if the second and third sequence are of different lengths. Because of this, "traverse_sequences3" will calculate the diffs of the second and third sequences as passed and swapped. If the differences are not the same, it will issue an `Algorithm::Diff::diff is not symmetric for second and third sequences...' warning. It will try to handle this, but there may be some cases where it can't.

SEE ALSO
Algorithm::Diff.

AUTHOR
James G. Smith, <jsmith@cpan.org>

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1.1320 findutils 4.6.0+git+20190209 2

1.1320.1 Available under license:

It was downloaded from ftp://ftp.gnu.org/gnu/findutils

Debian maintainer history: The original package was put together by Ian Murdock <imurdock@debian.org>, afterwards Kevin Dalley <kevind@rahul.net> took over. 2003-07 Andreas Metzler <ametzler@debian.org> followed.

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* GNU xargs was originally written by Mike Rendell, with enhancements by David MacKenzie. Modifications by James Youngman and Dmitry V. Levin.

* GNU locate and its associated utilities were originally written by James Woods, with enhancements by David MacKenzie, James Youngman and Bas van Gompel.

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#
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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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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MortBay

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following Apache Tomcat jars, all ASL2 licensed.

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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Mortbay

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

* 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 <jmmv@NetBSD.org>

* 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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- -->

<!- - $Id$ -->

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

<xsl:stylesheet version="1.0"
xmns:xsl="http://www.w3.org/1999/XSL/Transform"
xmns:xi="http://www.w3.org/2001/XInclude"
xmns: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:template>
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1.1335 faraday-rack 1.0.0

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1.1338 python-setuptools 61.3.0
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* /opt/cola/permits/1244677376_1639752541.63/0/proto-google-common-protos-2-3-2-sources-jar/com/google/api/ResourceDescriptor.java
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* /opt/cola/permits/1244677376_1639752541.63/0/proto-google-common-protos-2-3-2-sources-jar/com/google/rpc/ErrorInfo.java
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* /opt/cola/permits/1244677376_1639752541.63/0/proto-google-common-protos-2-3-2-sources-jar/com/google/longrunning/OperationsProto.java
* /opt/cola/permits/1244677376_1639752541.63/0/proto-google-common-protos-2-3-2-sources-jar/com/google/logging/type/HttpRequestOrBuilder.java

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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
If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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

------

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------

MortBay

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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

------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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1.1355 go 1.16.12

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1.1356 filesize 0.2.0
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1.1357 libdrm-common 2.4.107-8ubuntu1~20.04.2

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1.1358 curl 7.58.0 2ubuntu3.8

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==========

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

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

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announcement clause that makes it “incompatible” with GPL. You are not
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(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

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

## MIT Kerberos

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(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.

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1.1359 cdebconf 0.251ubuntu1

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1.1360 cpp 7.5.0 3ubuntu1~18.04

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Julian Seward, jseward@bzip.org

bzip2/libbzip2 version 1.0.6 of 6 September 2010

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G GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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

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

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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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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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*/  
/*/  
* Written by Doug Lea with assistance from members of JCP JSR-166  
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*/

Found in path(s):  
*/opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/util/ConcurrentReferenceHashMap.java  
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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/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/provider/AnnotationMetaDataProvider.java  
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*/  
/*/  
* **  
* <p>
* A method-level constraint, that evaluates a script expression against the
* annotated method or constructor. This constraint can be used to implement
* validation routines that depend on several parameters of the annotated
* executable.
* </p>
* <p>
* Script expressions can be written in any scripting or expression language,
* for which a a href="http://jcp.org/en/jsr/detail?id=223">JSR 223</a>
* ("Scripting for the Java<sup>TM</sup> Platform") compatible engine can be
* found on the classpath. To refer to a parameter within the scripting
* expression, use its name as obtained by the active
* [link javax.validation.ParameterNameProvider]. By default, [@code arg0], [@code arg1] etc.
* will be used as parameter names.
* </p>
* <p>
* The following listing shows an example using the JavaScript engine which
* comes with the JDK:
* </p>
* <pre>
* @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/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/ParameterScriptAssert.java
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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/util/TypeHelper.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/path/NodeImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/parser/BeginState.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/metadata/descriptor/CrossParameterDescriptorImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/cfg/context/PropertyTarget.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/engine/messageinterpolation/util/InterpolationHelper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/valuehandling/package-info.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/hv/pl/PolishNumberValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources-jar/org/hibernate/validator/constraints/Mod10Check.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/cfg/context/MethodConstraintMappingContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/DecimalMaxValidatorForNumber.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/constraintvalidators/bv/SizeValidatorForMap.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/NotEmpty.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/spi/valuehandling/ValidatedValueUnwrapper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/CompositionType.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/constraints/ModCheck.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal engine/messages/messageinterpolation/parser/InterpolationTermState.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/metadata/raw/ConstrainedParameter.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/util/TypeResolutionHelper.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/cfg/defs/CurrencyDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/cfg/defs/AssertFalseDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/engine/ConfigurationImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/cfg/ConstraintDef.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/metadata/aggregated/rule/ParallelMethodsMustNotDefineParameterConstraints.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/engine/resolver/DefaultTraversableResolver.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/cfg/context/ReturnValueConstraintMappingContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/internal/context/ReturnValueConstraintMappingContextImpl.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/Internal/ConstraintValidator.java
* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5.4.3-final-sources-jar/org/hibernate/validator/parameternameprovider/ParanamerParameterNameProvider.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate/validation/constraints/Email.java
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* /opt/ws_local/PERMITS_SQL/1068867929_1594465030.79/0/hibernate-validator-5-4-3-final-sources.jar/org/hibernate/validation/HibernateValidatorFactory.java
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That's all there is to it!
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.

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- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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DRuntime: Runtime Library for the D Programming Language

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

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

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

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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
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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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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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Tests included here are based on build output generated by the six-speed benchmark suite.

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

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.
### Open Source Used In cnBR Operations Hub 22.2

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    table, the facility still operates, and performs whatever part of
    its purpose remains meaningful.

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If such an object file uses only numerical parameters, data
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functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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of these things:

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changes were used in the work (which must be distributed under
Sections 1 and 2 above); and, if the work is an executable linked
with the Library, with the complete machine-readable "work that
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to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the
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*/opt/cola/permits/1257333041_1642801938.9/0/zjsonpatch-0-3-0-sources-
**1.1394 sqlite 3.16.2-5+deb9u3**

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**1.1395 jitescript 0.4.1**

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1.1396 snake-yaml 1.27

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1.1397 zlib 1.2.12-r1

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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.12, March 11th, 2022

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

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

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

1.1398 commons-logging 1.1.3

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1.1399 logstash-codec-netflow 4.2.2

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1.1400 mellium.im-sasl 0.2.1

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* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/impl/KillRing.java
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* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/LineReaderBuilder.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/keymap/BindingReader.java

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* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Widget.java
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* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/Highlighter.java
* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java

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* /opt/cola/permits/1260642180_1643189485.8/0/jline-reader-3-12-1-sources-jar/org/jline/reader/EOFError.java
1.1402 swaggo-echo-swagger 1.1.2

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1.1403 python-setuptools 33.1.1-1

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1.1404 tcltk-defaults 8.6.9+1

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1.1405 go 1.13.10

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1.1413 go-logr-zapr 0.1.0

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1.1414 google-cloud-go 0.38.0

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package compute_test

import (
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
req := &computepb.GetLicenseCodeRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequ
        est.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
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package compute

import {
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"
}

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get       []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
internalClient internalLicenseCodesClient

// The call options for this service.
CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licenseCodesRESTClient struct {
// The http endpoint to connect to.
endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD

// NewLicenseCodesRESTClient creates a new license codes rest client.
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
    clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licenseCodesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{ }}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption {
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
    kv := append(kv, []string{"gl-go", versionGo()}, keyval...)
    kv = append(kv, "gapi", gapiClient(), "gax", gax.Version, "rest", "UNKNOWN")
    c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
return nil
}
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
return nil
}
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
return nil, err
}
req.GetLicenseCode())
// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.LicenseCode{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
baseUrl.Path = settings.Path
}
if err != nil {
return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
return err
}
defer httpRsp.Body.Close()

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if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    // Build HTTP headers from client and context metadata.

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{}
e = gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
    baseUrl.Path = settings.Path
}

if err != nil {
    return err
}

httpReq = httpReqWithContext(ctx)

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}

def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)  
if e != nil {
    return nil, e
}
return resp, nil
}

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// Code generated by protoc-gen-go_gapid. DO NOT EDIT.

package compute_test

import (
    "context"
    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
}
defer c.Close()

// TODO: Use client.
_ = c
}

func ExampleLicensesClient_Delete() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
    // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
    // TODO: Handle error.
}

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
    // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
    // TODO: Use resp.
_ = resp
}
func ExampleLicensesClient_GetIamPolicy() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    return
  }
  defer c.Close()
  req := &computepb.GetIamPolicyLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
  }
  resp, err := c.GetIamPolicy(ctx, req)
  if err != nil {
    // TODO: Handle error.
    return
  }
  // TODO: Use resp.
  _ = resp
}

func ExampleLicensesClient_Insert() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    return
  }
  defer c.Close()
  req := &computepb.InsertLicenseRequest{
    // TODO: Fill request struct fields.
    // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
  }
  op, err := c.Insert(ctx, req)
  if err != nil {
    // TODO: Handle error.
    return
  }
  err = op.Wait(ctx)
  if err != nil {
    // TODO: Handle error.
    return
  }
}

func ExampleLicensesClient_List() {
  ctx := context.Background()
  c, err := compute.NewLicensesRESTClient(ctx)
  if err != nil {
    // TODO: Handle error.
    return
  }
  defer c.Close()

  // TODO: Handle error.
  return
}
// TODO: Handle error.
}
defer c.Close()

req := &computepb.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}
it := c.List(ctx, req)
for {
    resp, err := it.Next()
    if err == iterator.Done {
        break
    }
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
    // TODO: Fill request struct fields.
    // See
    https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (  "bytes"  "context"  "fmt"  "io/ioutil"  "math"
var newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
    Delete      []gax.CallOption
    Get         []gax.CallOption
    GetIamPolicy []gax.CallOption
    Insert      []gax.CallOption
    List        []gax.CallOption
    SetIamPolicy []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
    Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
    GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
    List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
    SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.

//
// The Licenses API.
type LicensesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicensesClient

    // The call options for this service.
    CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *compute pb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*compute pb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}
```

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
```go
func (c *LicensesClient) Insert(ctx context.Context, req *compute pb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}
```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
```go
func (c *LicensesClient) List(ctx context.Context, req *compute pb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}
```

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
```go
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *compute pb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*compute pb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}
```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
```go
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *compute pb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*compute pb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}
```

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // operationClient is used to call the operation-specific management service.
}
```
operationClient *GlobalOperationsClient

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }
    c := &licensesRESTClient{
        endpoint:   endpoint,
        httpClient: httpClient,
    }
    c.setGoogleClientInfo()

    o := []option.ClientOption{
        option.WithHTTPClient(httpClient),
        option.WithEndpoint(endpoint),
    }
    opC, err := NewGlobalOperationsRESTClient(ctx, o...)
    if err != nil {
        return nil, err
    }
    c.operationClient = opC

    return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
    return []option.ClientOption{
        internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
        internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
        internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
        internaloption.WithDefaultScopes(DefaultAuthScopes()...),
    }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {

kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", g.axGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
// Replace httpClient with nil to force cleanup.
c.httpClient = nil
if err := c.operationClient.Close(); err != nil {
    return err
}
return nil
}

// Connection returns a connection to the API service.
// // Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
 params := url.Values{
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unmn := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Operation{
        createMeta: &computepb.CreateMeta{}
    }
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
   (baseUrl.Path = settings.Path)
}
if err != nil {
    return err
}
httpReq = httpReq.WithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
deferr httpRsp.Body.Close()

if err == googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, opts...)
if e != nil {
    return nil, e
}
op := &Operation{
    &globalOperationsHandle{
        c: c.operationClient,
        proto: resp,
        project: req.GetProject(),
    },
}
return op, nil

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
baseUrl, err := url.Parse(c.endpoint)
if err != nil {
    return nil, err
}

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
unm := &computepb.License{
    resp := &compute.License{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
                baseUrl.Path = settings.Path
            }
            if err != nil {
                return err
            }
            httpReq = httpReqWithContext(ctx)
            httpReq.Header = headers

            httpRsp, err := c.httpClient.Do(httpReq)
            if err != nil {
                return err
            }
            defer httpRsp.Body.Close()

            if err = googleapi.CheckResponse(httpRsp); err != nil {
                return err
            }

            buf, err := ioutil.ReadAll(httpRsp.Body)
            if err != nil {
                return err
            }

            if err := unm.Unmarshal(buf, resp); err != nil {
                return maybeUnknownEnum(err)
            }

            return nil
        }, opts...)
        if e != nil {
            return nil, e
        }
    }
}
// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, 
opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", 

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        
    })
return resp, nil
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}
return nil, opts...
if e != nil {
    return nil, e
}
return resp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    params := url.Values{}
    if req != nil && req.RequestId != nil {
        params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
    }
    baseUrl.RawQuery = params.Encode()

    // Build HTTP headers from client and context metadata.
    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{} 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
if settings.Path != "" {
    baseUrl.Path = settings.Path
}
if err != nil {
    return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
def httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
def httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
   (baseUrl.Path = settings.Path)
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
    baseUrl.Path = settings.Path
    if err != nil {
        return err
    }
    httpReq = httpReq.WithContext(ctx)
    httpReq.Header = headers

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return err
    }

    if err := unm.Unmarshal(buf, resp); err != nil {
        return maybeUnknownEnum(err)
    }

    return nil
}, opts...) 

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```go
cfunc (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
        resp := &computepb.LicensesListResponse{
            if pageToken != "" {
                req.PageToken = proto.String(pageToken)
            }
            if pageSize > math.MaxInt32 {
                req.MaxResults = proto.Uint32(math.MaxInt32)
            } else if pageSize != 0 {
                req.MaxResults = proto.Uint32(uint32(pageSize))
            }
            baseUrl, err := url.Parse(c.endpoint)
            if err != nil {
                return nil, "", err
            }
            baseUrl.RawQuery = params.Encode()
        }
        // Build HTTP headers from client and context metadata.
        headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
            }
            params := url.Values{
                if req != nil && req.Filter != nil {
                }
                if req != nil && req.MaxResults != nil {
                    params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
                }
                if req != nil && req.OrderBy != nil {
                    params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
                }
                if req != nil && req.PageToken != nil {
                }
                if req != nil && req.ReturnPartialSuccess != nil {
                }
            }
            baseUrl.RawQuery = params.Encode()
            // Build HTTP headers from client and context metadata.
            headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
            e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
                if settings.Path != "" {
                    baseUrl.Path = settings.Path
```
if err != nil {
    return err
}

httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil,
    , opts...)
if e != nil {
    return nil, ",", e
}

it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }

    it.items = append(it.items, items...)
    return nextPageToken, nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }

    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)

it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
return it

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyRequest, 
    opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
        req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project", 

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.Policy{}
    e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
        if settings.Path != "" {
            baseUrl.Path = settings.Path
        }
        if err != nil {
            return err
        }
        httpReq = httpReqWithContext(ctx)
        httpReq.Header = headers

        httpRsp, err := c.httpClient.Do(httpReq)
        if err != nil {
            return err
        }
        defer httpRsp.Body.Close()

        if err = googleapi.CheckResponse(httpRsp); err != nil {
            return err
        }
        
        return resp
    })
    return resp, e
}
buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unm.Unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    baseUrl, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }

    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

    // Build HTTP headers from client and context metadata.
    md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",

    headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    resp := &computepb.TestPermissionsResponse{
        e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
            if settings.Path != "" {
                baseUrl.Path = settings.Path
            }

            return nil
        }, opts...)
        if e != nil {
            return nil, e
        }
        return resp, nil
    }

    return resp, nil
if err != nil {
    return err
}
httpReq = httpReqWithContext(ctx)
httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return err
}
deffer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return err
}

if err := unmarshal(buf, resp); err != nil {
    return maybeUnknownEnum(err)
}

return nil, opts...)
if e != nil {
    return nil, e
}
return resp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error

    // Response is the raw response for the current page.
    // It must be cast to the RPC response type.
    // Calling Next() or InternalFetch() updates this value.
    Response interface{}

    // InternalFetch is for use by the Google Cloud Libraries only.
    // It is not part of the stable interface of this package.
    //
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error) }

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
  return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*computepb.License, error) {
  var item *computepb.License
  if err := it.nextFunc(); err != nil {
    return item, err
  }
  item = it.items[0]
  it.items = it.items[1:]
  return item, nil
}

func (it *LicenseIterator) bufLen() int {
  return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
  b := it.items
  it.items = nil
  return b
}

1.1415 sqlite 3.32.1-r1

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1.1416 sysv-init 2.93-8
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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

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

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b) Accompany the work with a written offer, valid for at
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* /opt/cola/permits/1302294139_1649327737.42/0/netty-handler-4-1-74-final-sources-1-jar/io/netty/handler/ssl/SslClientHelloHandler.java
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* /opt/cola/permits/1302294139_1649327737.42/0/netty-handler-4-1-74-final-sources-1-
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* /opt/cola/permits/1302294139_1649327737.42/0/netty-handler-4-1-74-final-sources-1-
  jar/io/netty/handler/ssl/PemValue.java
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* /opt/cola/permits/1302294139_1649327737.42/0/netty-handler-4-1-74-final-sources-1-jar/io/netty/handler/ssl/OpenSslAsyncPrivateKeyMethod.java
* /opt/cola/permits/1302294139_1649327737.42/0/netty-handler-4-1-74-final-sources-1-jar/io/netty/handler/ssl/SslContextOption.java
* /opt/cola/permits/1302294139_1649327737.42/0/netty-handler-4-1-74-final-sources-1-jar/io/netty/handler/ssl/GroupsConverter.java
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* /opt/cola/permits/1302294139_1649327737.42/0/netty-handler-4-1-74-final-sources-1-jar/io/netty/handler/ssl/BouncyCastleAlpnSslEngine.java
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  jar/io/netty/handler/ssl/util/SimpleKeyManagerFactory.java
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* /opt/cola/permits/1302294139_1649327737.42/0/netty-handler-4-1-74-final-sources-1-
  jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java

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1.1429 jetty-security 9.4.35.v20201120

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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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

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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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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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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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1.1430 protobuf 1.27.1

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1.1431 jmespath 1.6.1

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Manifest-Version: 1.0
Automatic-Module-Name: com.codahale.metrics
Bnd-LastModified: 1582817818755
Build-Jdk: 1.8.0_232
Built-By: joschi
Bundle-Description: Metrics is a Java library which gives you unparall
eled insight into what your code does in production. Metrics provides a powerful toolkit of ways to measure the behavior of critical components in your production environment.

Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.html
Bundle-ManifestVersion: 2
Bundle-Name: Metrics Core
Bundle-SymbolicName: io.dropwizard.metrics.core
Bundle-Version: 4.1.4
Created-By: Apache Maven Bundle Plugin
Export-Package: com.codahale.metrics;uses="org.slf4j";version="4.1.4"
Implementation-Title: Metrics Core
Implementation-URL: https://metrics.dropwizard.io/metrics-core
Implementation-Vendor-Id: io.dropwizard.metrics
Implementation-Version: 4.1.4
Import-Package: org.slf4j;version="[1.6.0,2.0.0)"
Require-Capability: osgi.ee;filter="(&osgi.ee=JavaSE)(version=1.8)"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1320247041_1656496646.196915/0/metrics-core-4-1-4-jar/META-INF/MANIFEST.MF

1.1433 xft 2.3.3-0ubuntu1
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1.1434 psych 3.1.0

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1.1435 multi-json 1.15.0

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1.1436 cassandra-driver-core 3.0.1

1.1437 libxcb 1.13 1

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1.1438 protobuf 1.23.0

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1.1439 gmp 6.2.0-r0

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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

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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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* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/xml/XMLSpace.java
* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/scripting/AbstractScriptEvaluator.java
* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/component/ComponentSupport.java
* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/logic/ScriptedPredicate.java
* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/httpclient/IdleConnectionSweeper.java
* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/httpclient/AbstractTriStatePredicate.java
* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/httpclient/RequestConnectionClose.java
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* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/component/DestructableComponent.java
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* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/component/DestroyedComponentException.java
* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/xml/XMLConstants.java
* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/security/impl/ScriptedKeyStrategy.java
* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support/resolver/CriteriaSet.java

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* /opt/cola/permits/1247632578_1640311373.34/0/java-support-8-0-0-sources-jar/net/shibboleth/utilities/java/support(codec/HTMLEncoder.java

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- t
requires:
  Algorithm::Diff: 1.19
  perl: 5.6.0
  version: 0.01

Found in path(s):
  * /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/META.yml
No license file was found, but licenses were detected in source scan.

NAME
  Algorithm::Diff::XS - Algorithm::Diff with XS core loop

SYNOPSIS
  # Drop-in replacement to Algorithm::Diff, but "compact_diff"
  # and C<LCSidx> will run much faster for large data sets.
  use Algorithm::Diff::XS qw( compact_diff LCSidx );

DESCRIPTION
  This module is a simple re-packaging of Joe Schaefer's excellent but not
  very well-known Algorithm::LCS with a drop-in interface that simply
  re-uses the installed version of the Algorithm::Diff module.

  Note that only the "LCSidx" function is optimized in XS at the moment,
  which means only "compact_diff" will get significantly faster for large
  data sets, while "diff" and "sdiff" will run in identical speed as
  "Algorithm::Diff".

BENCHMARK

  Rate     Algorithm::Diff Algorithm::Diff::XS
  Algorithm::Diff 14.7/s                  --                -98%
  Algorithm::Diff:XS 806/s               5402%                  --

  The benchmarking script is as below:

  my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
  cmpthses( 500, {
    'Algorithm::Diff' => sub {
        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    },
  });

SEE ALSO
  Algorithm::Diff, Algorithm::LCS.
AUTHORS
Audrey Tang <cpan@audreyt.org>

COPYRIGHT
Copyright 2008 by Audrey Tang <cpan@audreyt.org>.

Contains derived code copyrighted 2003 by Joe Schaefer, <joe+cpan@sunstarsys.com>.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/README
No license file was found, but licenses were detected in source scan.

'GNU public license' => 'gpl', 1,
'GNU lesser public license' => 'gpl', 1,
'BSD license' => 'bsd', 1,
'proprietary' => 'proprietary', 0,
if ( $osi and $license_text =~ /All rights reserved/i ) { warn "LEGAL WARNING: 'All rights reserved' may invalidate Open Source licenses. Consider removing it.";

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/inc/Module/Install/Metadata.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME
Algorithm::Diff::XS - Algorithm::Diff with XS core loop

=head1 SYNOPSIS

# Drop-in replacement to Algorithm::Diff, but "compact_diff"
# and C<LCSidx> will run much faster for large data sets.
use Algorithm::Diff::XS qw( compact_diff LCSidx );

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This module is a simple re-packaging of Joe Schaefer's excellent but not very well-known L<Algorithm::LCS> with a drop-in interface that simply re-uses the installed version of the L<Algorithm::Diff> module.

Note that only the C<LCSidx> function is optimized in XS at the
moment, which means only `<compact_diff>` will get significantly faster for large data sets, while `<diff>` and `<sdiff>` will run in identical speed as `<Algorithm::Diff>`.

=head1 BENCHMARK

<table>
<thead>
<tr>
<th>Rate</th>
<th>Algorithm::Diff</th>
<th>Algorithm::Diff::XS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.7/s</td>
<td>--</td>
<td>-98%</td>
</tr>
<tr>
<td>806/s</td>
<td>5402%</td>
<td>--</td>
</tr>
</tbody>
</table>

The benchmarking script is as below:

```perl
my @data = ([qw/a b d/ x 50], [qw/b a d c/ x 50]);
cmpthethese(500, {
    'Algorithm::Diff' => sub {
        Algorithm::Diff::compact_diff(@data)
    },
    'Algorithm::Diff::XS' => sub {
        Algorithm::Diff::XS::compact_diff(@data)
    },
});
```

=head1 SEE ALSO

L<Algorithm::Diff>, L<Algorithm::LCS>.

=head1 AUTHORS

Audrey Tang E<lt>cpan@audreyt.orgE<gt>

=head1 COPYRIGHT

Copyright 2008 by Audrey Tang E<lt>cpan@audreyt.orgE<gt>.

Contains derived code copyrighted 2003 by Joe Schaefer, E<lt>joe+cpan@sunstarsys.comE<gt>.

This library is free software; you can redistribute it and/or modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/lib/algorithm-diff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/lib/Algorithm/Diff/XS.pm
No license file was found, but licenses were detected in source scan.

/*
ppport.h -- Perl/Pollution/Portability Version 3.06_01


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

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.06_01

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help
--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

--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 5.9.3.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=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.

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 up 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.

=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 --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 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
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 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 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, you want either `C<static>` or global variants.

For a `C<static>` function, use:

```
#define NEED_function
```

For a global function, use:

```
#define NEED_function_GLOBAL
```

Note that you mustn't have more than one global request for one function in your project.

<table>
<thead>
<tr>
<th>Function</th>
<th>Static Request</th>
<th>Global Request</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>
To avoid namespace conflicts, you can change the namespace of the explicitly exported functions using the \texttt{DPPP_NAMESPACE} macro. Just \texttt{#define} the macro before including \texttt{ppport.h}:

\begin{verbatim}
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
\end{verbatim}

The default namespace is \texttt{DPPP_}.

\section*{EXAMPLES}

To verify whether \texttt{ppport.h} is needed for your module, whether you should make any changes to your code, and whether any special defines should be used, \texttt{ppport.h} can be run as a Perl script to check your source code. Simply say:

\begin{verbatim}
perl ppport.h
\end{verbatim}

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:

\begin{verbatim}
perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
\end{verbatim}

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.

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) 2004-2005, 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

test

use strict;

my %opt = (
    quiet    => 0,
    diag     => 1,
    hints    => 1,
    changes  => 1,
    cplusplus => 0,
    filter   => 1,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|\[\r\n\])';  # line feed
my $HS = "[ \t\]";          # horizontal whitespace

eval {
    require Getopt::Long;
    Getopt::Long::GetOptions(
        \%opt, qw(
            help quiet diag! filter! hints! changes! cplusplus
            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.
";  
}

usage() if $opt{help};

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;
}

# Never use C comments in this file!!!!!
my $ccs  = '/'.'*';
my $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;
my %API = map { /^([\w]+)|([^\|])*|([^\|])*|([\w]*)$/
    ? ( \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(  
AvFILLp|5.004050||p)
Open Source Used In cnBR Operations Hub 22.2
HvNAME
INT2PTR[5.006000]
IN_LOCALE_COMPILETIME[5.007002]
IN_LOCALE_RUNTIME[5.007002]
IN_LOCALE[5.007002]
IN_PERL_COMPILETIME[5.008001]
IS_NUMBER_GREATER_THAN_UV_MAX[5.007002]
IS_NUMBER_INFINITY[5.007002]
IS_NUMBER_IN_UV[5.007002]
IS_NUMBER_NAN[5.007003]
IS_NUMBER_NEG[5.007002]
IS_NUMBER_NOT_INT[5.007002]
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IVdf[5.006000]
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MY_CXT[5.007003]
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Move
NEWSV
NOOP[5.005000]
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NVTYPE[5.006000]
NVef[5.006001]
NVif[5.006001]
NVgf[5.006001]
Newc
Newz
New
Nullav
Nullch
Nullcv
Nullhv
Nullsv
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PAD_CLONE_VARS
PAD_COMPNAME_FLAGS
PAD_COMPNAME_GEN_set
PAD_COMPNAME_GEN
PAD_COMPNAME_OURSTASH
PAD_COMPNAME_PV
PAD_COMPNAME_TYPE
PAD_RESTORE_LOCAL
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SvIV_nomg[5.009001]|p
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SvIVx
SvIV
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SvIsCOW[5.008003]
SvLEN_set
SvLEN
SvLOCK[5.007003]
SvMAGIC_set[5.009003]
SvNIOK_off
SvNIOKp
SvNIOK
SvNOK_off
SvNOK_only
SvNOK_on
SvNOKp
SvNOK
SvNVX
SvNV_set
SvNVx
SvNV
SvOK
SvOOK
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SvPOK_only_UTF8[5.006000]
SvPOK_only
SvPOK_on
SvPOKp
SvPOK
SvPVX
SvPV_force_nomg[5.007002]|p
SvPV_force
SvPV_nolen[5.006000]|p
SvPV_nomg[5.007002]|p
SvPV_set
SvPVbyte_force[5.009002]
SvPVbyte_nolen[5.006000]
SvPVbyte_nomg[5.007002]
SvPV_set
SvPVutf8_force[5.006000]
SvPVutf8_nolen[5.006000]
SvPVutf8_nomg[5.007002]
SvPVutf8x_force[5.006000]
SvPVutf8x[5.006000]
SvPVutf8[5.006000]
SvPVx
XPUSH_i||| XPUSH_mortal|5.009002||p
XPUSH_n||| XPUSH_p|||
XPUSH_h|5.004000||p
XSRETURN_EMPTY||| XSRETURN_IV||| XSRETURN_NO||| XSRETURN_NV||| XSRETURN_PV||| XSRETURN_UNDEF||| XSRETURN_UV|5.008001||p
XSRETURN_YES||| XSRETURN|||
XST_mIV||| XST_mNO||| XST_mNV||| XST_mPV||| XST_mUNDEF||| XST_mUV|5.008001||p
XST_mYES||| XS_VERSION_BOOTCHECK||| XS_VERSION||| XS||| ZeroD|5.009002||p
Zero||| _aMY_CXT|5.007003||p
_pMY_CXT|5.007003||p
aMY_CXT_5.007003||p
aMY_CXT|5.007003||p
aTHX_|5.006000||p
aTHX|5.006000||p
add_data|||
allocmy|||
amagic_call|||
any_dup|||
ao|||
append_elem|||
append_list|||
apply_attrss_my|||
apply_attrss_string|5.006001|
apply_attrs|||
apply|||
asIV|||
asUV|||
atfork_lock|5.007003|n
atfork_unlock|5.007003|n
ck_bitop
ck_concat
ck_defined
ck_delete
ck_die
ck_eof
ck_eval
ck_exec
ck_exists
ck_exit
ck_ftst
ck_fun
ck_glob
ck_grep
ck_index
ck_join
ck_lengthconst
ck_listiobj
ck_match
ck_method
ck_null
ck_open
ck_repeat
ck_require
ck_retarget
ck_return
ck_rfun
ck_rvconst
ck_sassign
ck_select
ck_shift
ck_sort
ck_spair
ck_split
ck_subr
ck_substr
ck_svconst
ck_trunc
ck_unpack
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cl_anything
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cl_is_anything
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div128|||
djSP|||
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do_aexec|||
do_aspawn|||
do_binmode||5.004050|
do_chomp|||
do_chop|||
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do_dump_pad|||
do_eof|||
do_exec3|||
do_execfree|||
do_exec|||
do_gv_dump||5.006000|
do_gvgv_dump||5.006000|
do_hv_dump||5.006000|
do_ipcctl|||
do_ipcget|||
do_join|||
do_kv|||
do_magic_dump||5.006000|
do_msgrcv|||
do_msgsnd|||
do_oddball|||
do_op_dump||5.006000|
do_open9||5.006000|
do_openn||5.007001|
do_open||5.004000|
do_pipe|||
do_pnop_dump||5.006000|
do_print|||
do_readline|||
do_seek|||
do_semop|||
do_shmio|||
do_spawn_nowait|||
do_spawn|||
do_sprintf|||
do_sysseek|||
do_tell|||
filter_read
find_beginning
find_byclass
find_in_my_stash
find_runcv
find_rundefsvoffset
find_script
find_uninit_var
fold_constants
forbid_setid
force_ident
force_list
force_next
force_version
force_word
form_nocontext
form
fp_dup
fprintf_nocontext
free_global_struct
free_tied_hv_pool
free_tmps
gen_constant_list
get_av
get_context
get_cv
get_db_sub
get_debug_opts
get_hash_seed
get_hv
get_mstats
get_no_modify
get_num
get_op_descs
get_op_names
get_opargs
get_ppaddr
get_sv
get_vtbl
cwd_sv
getenv_len
gp_dup
gp_free
gp_ref
grok_bin
grok_hex
grok_number
grok_numeric_radix
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hv_iiterinit
hv_iterkeysy[5.004000]
hv_iterkey
hv_iternext_flags[5.008000]
hv_iternextsv
hv_iternext
hv_interval
hv_ksplit[5.004000]
hv_magic_check
hv_magic
hv_name_set[5.009003]
hv_notallowed
hv/placeholders_get[5.009003]
hv/placeholders_p[5.009003]
hv/placeholders_set[5.009003]
hv_ruter_p[5.009003]
hv_ruter_set[5.009003]
hv_scalar[5.009001]
hv_store_ent[5.004000]
hv_store_flags[5.008000]
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ibcmp
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incline
incpush
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init_i18n14n[5.006000]
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init_main_stash
init_perllib
init_postdump_symbols
init_predump_symbols
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init_tmi[5.007002]
instr
intro_my
intuit_method
is_utf8_char[5.006000]
is_utf8_cntrl[5.006000]
is_utf8_digit[5.006000]
is_utf8_graph[5.006000]
is_utf8_idcont[5.008000]
is_utf8_idfirst[5.006000]
is_utf8_lower[5.006000]
is_utf8_mark[5.006000]
is_utf8_print[5.006000]
is_utf8_punct[5.006000]
is_utf8_space[5.006000]
is_utf8_string_loc[5.009003]
is_utf8_string_loc[5.008001]
is_utf8_string[5.006001]
is_utf8_upper[5.006000]
is_utf8_xdigit[5.006000]
isa_lookup[]
items[]n
ix[]n
jmaybe[]
keyword[]
leave_scope[]
lex_end[]
lex_start[]
linklist[]
listkids[]
list[]
load_module_nocontext[]vn
load_module[5.006000]v
localize[]
looks_like_number[]
lop[]
mPUSH[5.009002]p
mPUSHn[5.009002]p
mPUSHp[5.009002]p
mPUSHu[5.009002]p
mXPUSH[5.009002]p
mXPUSHn[5.009002]p
mXPUSHp[5.009002]p
mXPUSHu[5.009002]p
magic_clear_all_env[]
magic_clearenv[]
magic_clearpack[]
magic_clearsig[]
magic_dump[5.006000]
magic_existspack[]
magic_freearylen_p[]
magic_freeenv[]
magic_freearylen_p[]
magic_freeovrld[]
magic_freeregexp
magic_getarylen
magic_getdefelem
magic_getglob
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);
$hint = $1 if m{^\s*$rcce\s+Hint:\s+\(w+\)s*\$};

$replace = $1 if m{^\s*$rcce\s+Replace:\s+\(w+\)s*\$};
$replace{$2} = $1 if m{^\s*$rcce\s+\(w+\)s*\$};
$replace{$2} = $1 if $replace and m{^\s*define\s+\(w+\)s*\$};
$replace{$2} = $1 if m{^\s*$rcce\s+\(w+\)s*\$};

if (m{^\s*$rcce\s+(\w+)\s+depends\s+\(w+\)s*\$}) {
  push @{$depends{$1}}, map { s/\s+//g; $_ } split /, /;
}

$need{$1} = 1 if m{^\s*$rcce\s+(\w+)\s+\(w+\)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 "$hints{$f}" if exists $hints{$f};
      $info++;
    } unless ($info) {
      print "No portability information available:\n";
    }
    $count++;
  }
  if ($count > 0) {
    print "\n";
  } else {
    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};
my $flags = @flags ? ' ['.join(', ', @flags).']' : '';
print "$f$flags\n";
}
exit 0;
}
my @files;
my @srcext = qw( xs c h cc cpp );
my $srcext = join '|', @srcext;
if (@ARGV) {
my %seen;
@files = grep { -f && !exists $seen{$_} } map { glob $_ } @ARGV;
}
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;

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}
unless (@files) {
die "No input files given!\n";
}
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 comments from the code
my @ccom;
$c =~ s{
(
[^"'/]+
|
(?:"[^"\\]*(?:\\.[^"\\]*)*" [^"'/]*)+
|
(?:'[^'\\]*(?:\\.[^'\\]*)*' [^"'/]*)+
)
|
(/ (?:
\*[^*]*\*+(?:[^$ccs][^*]*\*+)* /
|
/[^\r\n]*
))
}{
defined $2 and push @ccom, $2;
defined $1 ? $1 : "$ccs$#ccom$cce";
}egsx;
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = ($c =~ /#.*include.*\Q$ppport\E/);

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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}) {
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) {
if (exists $need{$_}) {
$file{needs}{$_} = 'static';
}
}
}
}
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;
}
}

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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 @t = grep $files{$_}{needed_global} {$need}, @targets;
    @t = grep /\xs$/i, @t if @t;
    @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};

  for $func (sort keys %{$file{uses_Perl}}) {
    if ($API{$func}{varargs}) {
      my $changes = ($c =~ s{\b(Perl_$func\$\(\s*\([^\s]*\)\)?aTHX_\.?\([^\s]*\))\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_\.?\([^\s]*\)\s*$}{ $func$1() }g);
    }
  }

  for $func (sort keys %{$file{uses_replace}}) {
    warning("Uses $func instead of $replace{$func}"};
    $file{changes} += ($c =~ s{\bPerl_$func\$\(\s*\([^\s]*\)\)?aTHX_\.?\([^\s]*\)\s*$}{ $func$1() }g);
  }
}
$file{changes} += ($c =~ s/$func\b/$replace{$func}/g);

for $func (sort keys %{$file{uses}}) {
    next unless $file{uses}{$func}; # if it's only a dependency
    if (exists $file{uses_deps}{$func}) {
        diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    } elsif (exists $replace{$func}) {
        warning("Uses $func instead of $replace{$func}");
        $file{changes} += ($c =~ s/$func/$replace{$func}/g);
    } else {
        diag("Uses $func");
    }
    hint($func);
}

for $func (sort keys %{$file{uses_todo}}) {
    warning("Uses $func, which may not be portable below perl ",
        format_version($API{$func}{todo}));
}

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";
        } else {
            diag("Uses $func");
        }
    } if ($message) {
        diag($message);
        $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
    }
}
if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#define$HS+NEED_$func\_GLOBAL\$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 .= 
        }
    }

    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\n")
    }

    if ($pp) {
        $file{changes} += ($c =~ s/\^\$(SHS*#SHS*defineSHS+NEED_\w+.*\$/S1pp/m)
            || ($c =~ s/\^\$(SHS*#SHS*defineSHS+NEED_\w+.*\$/S1pp/m)
            || ($c =~ s/\^\$(SHS*#SHS*include.*Q$ppport\E)/$pp/m)
            || ($c =~ s/\^\$(SHS*#SHS*include.*XSUB.*s?)/$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 $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rcs$ix$rcce/$ccs$ccom[$ix] $cce/;
  } else {
    $c =~ s/$rcs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : ';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

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 'Sopt{patch}' for writing: $!");
delete Sopt{patch};
Sopt{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 mydiff
{
    local *F = shift;
    my($file, $str) = @_; my $diff;

    if (exists $opt{diff}) {
        $diff = run_diff($opt{diff}, $file, $str);
    }

    if (!defined $diff and can_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 $diff;
        }
        else {
            error("Cannot open '$tmp' for writing: $!");
        }
    }

    unlink $tmp;
}
else {
    error("Cannot generate a diff. Please install Text::Diff or use --copy.");
    return undef;
}
sub can_use
{
  eval "use @_;"
  return @$ eq ";"
}

sub rec_depend
{
  my $func = shift;
  my %seen;
  return () unless exists $depends{$func};
  grep !$seen{$_}++, map { ($_, rec_depend($_)) } @{$depends{$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 =~ /\(\d+\).\(\d{3}\).\(\d{3}\)/;

  $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;
sub hint
{
    $opt{quiet} and return;
}
$opt{hints} or return;
my $func = shift;
exists $hints->{$func} or return;
$given_hints->{$func}++ and return;
my $hint = $hints->{$func};
$hint =~ s/^/   /mg;
print "   --- hint for $func ---\n" $hint;
}

sub usage
{
my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*\^(.*?)\s*\^=/ms;
my %M = ( 'I' => '*' );
$usage =~ s/\^s*perl+s+$^X $0/;
$usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

print <<ENDUSAGE;
Usage: $usage
See perldoc $0 for details.
ENDUSAGE

exit 2;
}

__DATA__
/*

Found in path(s):
* /opt/cola/permits/1125674286_1611416022.78/0/libalgorithmdiff-xs-perl-0-04-orig-1-tar-gz/Algorithm-Diff-XS-0.04/ppport.h

1.1479 logstash-output-webhdfs 3.0.6
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1.1480 opencontainers-go-digest 1.0.0

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/TokenType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/MaxLengthFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarFormatter.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/TimeType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/HexBinaryType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/UnsignedLongType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/IntegerValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/FinalComponent.java
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jar/com/sun/msv/datatype/xsd/MaxExclusiveFacet.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
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jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarFormatter.java
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jar/com/sun/msv/datatype/xsd/datetime/BigDateTimeValueType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/Util.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/NumberType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/WhiteSpaceProcessor.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/WhiteSpaceFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DataTypeWithLexicalConstraintFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/DatatypeFactory.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/XmlNames.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/ByteType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
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jar/com/sun/msv/datatype/xsd/RangeFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/datetime/AbstractCalendarParser.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ErrorType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GMonthType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ShortType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/GMonthDayType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/PatternFacet.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/IntType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/TotalDigitsFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/UnsignedShortType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/DataTypeWithFacet.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/PositiveIntegerType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/Discrete.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/regex/XercesImpl.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/xsd/ConcreteType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/Comparator.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/GYearType.java
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jar/com/sun/msv/datatype/xsd/NameType.java
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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
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jar/com/sun/msv/datatype/xsd/datetime/CalendarParser.java
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jar/com/sun/msv/datatype/xsd/GDayType.java
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jar/com/sun/msv/datatype/xsd/IntegerType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/IDType.java
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jar/com/sun/msv/datatype/xsd/QnameType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/BinaryBaseType.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-
jar/com/sun/msv/datatype/xsd/IDREFType.java

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jar/com/sun/msv/datatype/regexp/RegexParser.java

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* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/ParseException.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/Match.java
* /opt/cola/permits/1257217844_1642790354.82/0/xsdlib-2013-6-1-sources-jar/com/sun/msv/datatype/regexp/REUtil.java
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package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID    string `json:"arrayUUID,omitempty"
    ClusterID    string `json:"clusterID,omitempty"
    CustomerID   string `json:"customerID"
    CustomerName string `json:"customerName"
    Storage      int `json:"storage"
    ValidUntil   time.Time `json:"validUntil"
    LicenceType  string `json:"licenceType"
    Features     map[FeatureType]bool `json:"features"
    Unregistered bool `json:"unregistered"
}
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package spec

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//
// For more information: http://goo.gl/8us55a#LicenseObject

type License struct {
    Name string `json:"name,omitempty"
    URL  string `json:"url,omitempty"
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin     string
    Option     string
    Severity   string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy string
    Additional string
    Version    string
}

func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf("Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf("Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
}
if n.ReplacedBy != "" {
    s += fmt.Sprintf(` It is replaced by "%v"`, n.ReplacedBy)
}
if n.Additional != "" {
    s += " " + n.Additional
}
return s
}

const (
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
                              // the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present
                              // in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
)

{% panel style="success", title="Providing Feedback" %}
**Provide feedback at the [survey](https://www.surveymonkey.com/r/JH35X82)**
{% endpanel %}

{ % panel style="info", title="TL;DR" %}
  - Copy files to and from Containers in a cluster
{ % endpanel %}

# Copying Container Files

## Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

{ % panel style="warning", title="Install Tar" %}
Copy requires that *tar* be installed in the container image.
{ % endpanel %}

{ % method %}

## Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `\`<path>`\`
- Remote file format is `\`<pod-name>:<path>`\`
Copy a remote file from a Pod to a local file.

- Local file format is `<path>`
- Remote file format is `<pod-name>:/<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

Set the Pod namespace by prefixing the Pod name with `/<namespace>`.

- `<pod-namespace>/<pod-name>:/<path>`

```bash
```
```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```

{% endmethod %}

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package storageos

import (
    "encoding/json"

    "github.com/storageos/go-api/types"
)

const ( // licenceAPIPrefix is a partial path to the HTTP endpoint.
    licenceAPI Prefix = "licencing"
)

// Licence returns the current licence on the server.
func (c *Client) Licence() (*types.Licence, error) {
    resp, err := c.do("GET", licenceAPIPrefix, doOptions{})
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    licence := &types.Licence{
        if err := json.NewDecoder(resp.Body).Decode(&licence); err != nil {
            return nil, err
        }
        return licence, nil
    }

// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{})
    if err != nil {
        return err
    }
    return resp.Body.Close()
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tomb - support for clean goroutine termination in Go.

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package simulator

import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "serialuri:2",
             Value: "Remote virtual Serial Port Concentrator",
         },
         },
        {Key: "feature",
         Value: types.KeyValue{
             Key:   "dvs",
             Value: "vSphere Distributed Switch",
         },
         },
        },
    }
}

type LicenseManager struct {
    mo.LicenseManager
}

func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{ }).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:     req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)
    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:])...
            return body
        }
    }

    return body
}

func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

    for i := range m.Licenses {
        license := &m.Licenses[i]

        if req.LicenseKey != license.LicenseKey {
            continue
        }
    }

    return body
}
body.Res = new(types.UpdateLicenseLabelResponse)

for j := range license.Labels {
    label := &license.Labels[j]

    if label.Key == req.LabelKey {
        if req.LabelValue == "" {
            license.Labels = append(license.Labels[:i], license.Labels[i+1:...])
        } else {
            if req.LabelValue == "" {
                return body
            } else {
                label.Value = req.LabelValue
            }
            return body
        }
    }

    license.Labels = append(license.Labels, types.KeyValue{
        Key:   req.LabelKey,
        Value: req.LabelValue,
    })

    return body
}

body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
return body

func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
    body := &methods.QueryAssignedLicensesBody{
        Res: &types.QueryAssignedLicensesResponse{}
    }

    // EntityId can be a HostSystem or the vCenter InstanceUuid
    if req.EntityId != "" {
        if req.EntityId != Map.content().About.InstanceUuid {
            id := types.ManagedObjectReference{
                Type:  "HostSystem",
                Value: req.EntityId,
            }

            if Map.Get(id) == nil {
                return body
            }
        }
    }

    return body
}
body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    EntityId: req.EntityId,
    AssignedLicense: EvalLicense,
}

return body

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info-LicenseKey = key
    info.Labels = labels

    return info
}

---

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

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1.1493 coreutils 8.26-3

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Changes:
* added Debian GNU/Linux package maintenance system files
* at times, bug fixes awaiting inclusion in the upstream source

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doc/coreutils.texi (The GNU Coreutils Manual)

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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
  or consider a pattern matching anonymous function: `{ case (a, b) => ... }
val x: ((Int, Int) => Int) = (((a, b)) => a)

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple2,
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val y: ((Int, Int, Int) => Int) = (((a, !!)) => a)

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.
Note: Tuples cannot be directly destructured in method or function parameters.
Either create a single parameter accepting the Tuple3,
  or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }
val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

3 errors
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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
  Newlibsensors 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.
1.1501 apt 2.0.9

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  site: string
  author: root

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* /opt/cola/permits/1244676477_1639753003.94/0/google-auth-library-oauth2-http-0-26-0-sources-jar/com/google/auth/oauth2/QuotaProjectIdProvider.java
* /opt/cola/permits/1244676477_1639753003.94/0/google-auth-library-oauth2-http-0-26-0-sources-jar/com/google/auth/oauth2/IdTokenProvider.java
* /opt/cola/permits/1244676477_1639753003.94/0/google-auth-library-oauth2-http-0-26-0-sources-jar/com/google/auth/oauth2/JwtClaims.java
* /opt/cola/permits/1244676477_1639753003.94/0/google-auth-library-oauth2-http-0-26-0-sources-jar/com/google/auth/oauth2/IdToken.java

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* /opt/cola/permits/1244676477_1639753003.94/0/google-auth-library-oauth2-http-0-26-0-sources-
  jar/com/google/auth/oauth2/StsTokenExchangeResponse.java
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  jar/com/google/auth/oauth2/OAuthException.java
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  jar/com/google/auth/oauth2/AwsRequestSignature.java
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* /opt/cola/permits/1244676477_1639753003.94/0/google-auth-library-oauth2-http-0-26-0-sources-
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not-a-legal-formal-parameter-tuple.scala:2: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (a, b) => ... }`

val x: ((Int, Int) => Int) = (((a, b)) => a)

not-a-legal-formal-parameter-tuple.scala:3: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple2,

or consider a pattern matching anonymous function: `{ case (param1, param2) => ... }`

val y: ((Int, Int, Int) => Int) = (((a, !)) => a)

not-a-legal-formal-parameter-tuple.scala:4: error: not a legal formal parameter.

Note: Tuples cannot be directly destructured in method or function parameters.

Either create a single parameter accepting the Tuple3,

or consider a pattern matching anonymous function: `{ case (param1, ..., param3) => ... }`

val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

3 errors

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1.1512 six 1.11.0-2
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package compute_test

import {
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    "google.golang.org/api/iterator"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
}

func ExampleNewLicensesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()
    // TODO: Use client.
    _ = c
}

func ExampleLicensesClient_Delete() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}
// TODO: Handle error.
}
defer c.Close()

req := &compute.DeleteLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
}
resp, err := c.Delete(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_Get() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &compute.GetLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp

func ExampleLicensesClient_GetIamPolicy() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
defer c.Close()

req := &compute.GetIamPolicyLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
}
resp, err := c.GetIamPolicy(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Insert() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}

defer c.Close()

req := &computepb.InsertLicenseRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
}
resp, err := c.Insert(ctx, req)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_List() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}

defer c.Close()

req := &computepb.ListLicensesRequest{
// TODO: Fill request struct fields.
// See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
}

it := c.List(ctx, req)
for {
resp, err := it.Next()
if err == iterator.Done {
break
}
if err != nil {
// TODO: Handle error.
}
func ExampleLicensesClient_SetIamPolicy() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.SetIamPolicyLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
    }
    resp, err := c.SetIamPolicy(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

func ExampleLicensesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicensesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}
package compute_test

import {
    "context"

    compute "cloud.google.com/go/compute/apiv1"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
}

func ExampleNewLicenseCodesRESTClient() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    // TODO: Use client.
    _ = c
}

func ExampleLicenseCodesClient_Get() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.GetLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
    }
    resp, err := c.Get(ctx, req)
if err != nil {
    // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
    ctx := context.Background()
    c, err := compute.NewLicenseCodesRESTClient(ctx)
    if err != nil {
        // TODO: Handle error.
    }
    defer c.Close()

    req := &computepb.TestIamPermissionsLicenseCodeRequest{
        // TODO: Fill request struct fields.
        // See
        // https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
    }
    resp, err := c.TestIamPermissions(ctx, req)
    if err != nil {
        // TODO: Handle error.
    }
    // TODO: Use resp.
    _ = resp
}

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package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "math"
    "net/http"
    "net/url"

gax "github.com/googleapis/gax-go/v2"
    "google.golang.org/api/googleapi"
    "google.golang.org/api/iterator"
    "google.golang.org/api/option"
    "google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    "google.golang.org/grpc"
    "google.golang.org/grpc/metadata"
    "google.golang.org/protobuf/encoding/protojson"
    "google.golang.org/protobuf/proto"
)

var newLicensesClientHook clientHook
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
  Delete   []gax.CallOption
  Get      []gax.CallOption
  GetIamPolicy []gax.CallOption
  Insert   []gax.CallOption
  List     []gax.CallOption
  SetIamPolicy []gax.CallOption
  TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
  Close() error
  setGoogleClientInfo(...string)
  Connection() *grpc.ClientConn
  Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
  Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
  GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
  Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
  List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
  SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy, error)
  TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.

// The Licenses API.
type LicensesClient struct {
  // The internal transport-dependent client.
  internalClient internalLicensesClient

  // The call options for this service.
  CallOptions *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
  return c.internalClient.Close()
// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
// cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
    return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with method calls.
type licensesRESTClient struct {
    // The http endpoint to connect to.
    endpoint string

    // The http client.
    httpClient *http.Client

    // The x-goog-* metadata to be sent with each request.
    xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
    clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
    httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
    if err != nil {
        return nil, err
    }

    c := &licensesRESTClient{
        endpoint: endpoint,
        httpClient: httpClient,
    }

    return NewLicensesClient(httpClient, c.endpoint, c.httpClient), nil
}
c.setGoogleClientInfo()

return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
  return []option.ClientOption{
    internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
    internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
    internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
    internaloption.WithDefaultScopes(DefaultAuthScopes()...),
  }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
  kv := append([]string{"gl-go", versionGo()}, keyval...)
  kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
  c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
  // Replace httpClient with nil to force cleanup.
  c.httpClient = nil
  return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
  return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
  baseUrl, _ := url.Parse(c.endpoint)
  params := url.Values{}
  if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
  }
  return nil
}
baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deref httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption) (*computepb.License, error) {
    baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}

httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}

deffer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
    opts ...gax.CallOption) (*computepb.Policy, error) {
    baseUrl, _ := url.Parse(c.endpoint)
        req.GetResource())

    params := url.Values{}
    if req != nil && req.OptionsRequestedPolicyVersion != nil {
    }

    baseUrl.RawQuery = params.Encode()
if err != nil {
    return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{
    
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption) (*Operation, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetLicenseResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)

params := url.Values{}
if req != nil && req.RequestId != nil {
    params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

if err != nil {
    return nil, err
}

httpReq = httpReq.WithContext(ctx)

// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}

op := &Operation{proto: rsp}
return op, err

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption) *LicenseIterator {
  it := &LicenseIterator{
    req = proto.Clone(req).(*computepb.ListLicensesRequest)
    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
      resp := &compute pb.LicensesListResponse{
        if pageToken != "" {
          req.PageToken = proto.String(pageToken)
        }
        if pageSize > math.MaxInt32 {
          req.MaxResults = proto.Uint32(math.MaxInt32)
        } else if pageSize != 0 {
          req.MaxResults = proto.Uint32(uint32(pageSize))
        }
        baseUrl, _ := url.Parse(c.endpoint)
        params := url.Values{
          if req != nil && req.Filter != nil {
          }
          if req != nil && req.MaxResults != nil {
            params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
          }
          if req != nil && req.OrderBy != nil {
            params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
          }
          if req != nil && req.PageToken != nil {
          }
          if req != nil && req.ReturnPartialSuccess != nil {
          }
        }
        baseUrl.RawQuery = params.Encode()
        if err != nil {
          return nil, "", err
        }
        // Set the headers
        for k, v := range c.xGoogMetadata {
          httpReq.Header[k] = v
        }
        return &LicenseIterator{
          resp: resp, 
          req: req,
          nextPageToken: pageToken,
          pageSize: pageSize,
        }
      }
      return nil, "", err
    }
    return it
  }
}
httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, "", err
}

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil

fetch := func(pageSize int, pageToken string) (string, error) {
    items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
    if err != nil {
        return "", err
    }
    it.items = append(it.items, items...)
    return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()
return it

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts ...gax.CallOption) (*computepb.Policy, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetGlobalSetPolicyRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }

    // SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
baseUrl, _ := url.Parse(c.endpoint)
req.GetResource())

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{
}

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req *computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)

    if err != nil {
        return nil, err
    }
    httpReq = httpReq.WithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }

    buf, err := ioutil.ReadAll(httpRsp.Body)
    if err != nil {
        return nil, err
    }

    unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
    rsp := &computepb.Policy{

    }

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}
if err != nil {
    return nil, err
}

baseUrl, _ := url.Parse(c.endpoint)

if err != nil {
    return nil, err
}
httpReq = httpReqWithContext(ctx)
// Set the headers
for k, v := range c.xGoogMetadata {
    httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
    return nil, err
}
deferr httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
    return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{

if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
    items    []*computepb.License
    pageInfo *iterator.PageInfo
    nextFunc func() error
}
Response is the raw response for the current page.
// It must be cast to the RPC response type.
// Calling Next() or InternalFetch() updates this value.
Response interface{}
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// distributed under the License is distributed on an "AS IS" BASIS,
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
    "bytes"
    "context"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/url"
    gax "github.com/googleapis/gax-go/v2"
    google.golang.org/api/googleapi"
    google.golang.org/api/option"
    google.golang.org/api/option/internaloption"
    httptransport "google.golang.org/api/transport/http"
    computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
    google.golang.org/grpc"n
    google.golang.org/grpc/metadata"
    google.golang.org/protobuf/encoding/protojson"
)

var newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
    Get           []gax.CallOption
    TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
    Close() error
    setGoogleClientInfo(...string)
    Connection() *grpc.ClientConn
    Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
    TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error)
}
// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
    // The internal transport-dependent client.
    internalClient internalLicenseCodesClient

    // The call options for this service.
    CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
    return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
    c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
    return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.TestPermissionsResponse, error) {

return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
// The http endpoint to connect to.
endpoint string

// The http client.
httpClient *http.Client

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
if err != nil {
return nil, err
}
c := &licenseCodesRESTClient{
    endpoint: endpoint,
    httpClient: httpClient,
}
c.setGoogleClientInfo()

return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}, nil}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
return []option.ClientOption{
internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
internaloption.WithDefaultScopes(DefaultAuthScopes()...),
}
}

// setGoogleClientInfo sets the name and version of the application in
// the 'x-goog-api-client' header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {

kv := append([]string{"gl-go", versionGo()}, keyval...)  
kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")  
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))  
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
    // Replace httpClient with nil to force cleanup.
    c.httpClient = nil
    return nil
}

// Connection returns a connection to the API service.
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
    return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts ...
gax.CallOption) (*computepb.LicenseCode, error) {
    baseUrl, _ := url.Parse(c.endpoint)
    req.GetLicenseCode())

    if err != nil {
        return nil, err
    }

    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }

    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }

    defer httpRsp.Body.Close()

    if err = googleapi.CheckResponse(httpRsp); err != nil {
        return nil, err
    }


buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
    return nil, err
}
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}
if err := unm.Unmarshal(buf, rsp); err != nil {
    return nil, maybeUnknownEnum(err)
}
return rsp, nil

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
    *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
    (*computepb.TestPermissionsResponse, error) {
    m := protojson.MarshalOptions{AllowPartial: true}
    body := req.GetTestPermissionsRequestResource()
    jsonReq, err := m.Marshal(body)
    if err != nil {
        return nil, err
    }
    baseUrl, _ := url.Parse(c.endpoint)
    baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
        req.GetProject(), req.GetResource())

    if err != nil {
        return nil, err
    }
    httpReq = httpReqWithContext(ctx)
    // Set the headers
    for k, v := range c.xGoogMetadata {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}

    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    defer httpRsp.Body.Close()
if err = googleapi.CheckResponse(httpRsp); err != nil {
  return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
  return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{
}

if err := unm.Unmarshal(buf, rsp); err != nil {
  return nil, maybeUnknownEnum(err)
}
return rsp, nil

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1.1514 prometheus-common 0.4.1

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1.1516 pyvim 3.0.2
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Metadata-Version: 1.0
Name: pyvim
Version: 3.0.2
Summary: Pure Python Vi Implementation
Home-page: https://github.com/jonathanslenders/pyvim
Author: Jonathan Slenders
Author-email: UNKNOWN
License: LICENSE
Description: pyvim

******

*An implementation of Vim in Python*

```

pip install pyvim

```

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/welcome-screen.png

Issues, questions, wishes, comments, feedback, remarks? Please create a GitHub issue, I appreciate it.

|Build Status|

Installation

----------

Simply install `pyvim` using pip:

```

pip install pyvim

```

It is a good idea to add the following to your `~/.bashrc` if you really want to use it:

```

alias vi=pyvim
export EDITOR=pyvim

```

The good things
The editor is written completely in Python. (There are no C extensions). This makes development a lot faster. It's easy to prototype and integrate new features.

We have already many nice things, for instance:

- Syntax highlighting of files, using the Pygments lexers.

- Horizontal and vertical splits, as well as tab pages. (Similar to Vim.)

- All of the functionality of `prompt_toolkit`<http://github.com/jonathanslenders/python-prompt-toolkit>_`. This includes a lot of Vi key bindings, it's platform independent and runs on every Python version from python 2.6 up to 3.4. It also runs on Pypy with a noticable performance boost.

- Several `":set ...`` commands have been implemented, like `"incsearch``, `"number``, `"ignorecase``, `"wildmenu``, `"expandtab``, `"hlsearch``, `"ruler``, `"paste`` and `"tabstop``.

- Other working commands: `"vsplit``, `"tabnew``, `"only``, `"badd``, and many others.

- For Python source code, auto completion uses the amazing Jedi library, and code checking in done (asynchronously) through Pyflakes.

- Colorschemes can be changed at runtime.

Further, when the project develops, it should also become possible to write extensions in Python, and use Python as a scripting language. (Instead of vimscript, for instance.)

We can also do some cool stuff. Like for instance running the editor on the Python asyncio event loop and having other coroutines interact with the editor.

Some more screenshots

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

Editing its own source code:

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/editing-pyvim-source.png

Window layouts (horizontal and vertical splits + tab pages.)

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/window-layout.png
Pyflakes for Python code checking and Jedi for autocompletion:

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/pyflakes-and-jedi.png

Other colorschemes:

.. image :: https://github.com/jonathanslenders/pyvim/raw/master/docs/images/colorschemes.png

Chinese and Japanese input (double width characters):

.. image :: https://raw.githubusercontent.com/jonathanslenders/pyvim/master/docs/images/cjk.png?v2

Configuring pyvim

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

It is possible to create a ``.pyvimrc` file for a custom configuration. Have a look at this example: `pyvimrc
<https://github.com/jonathanslenders/pyvim/blob/master/examples/config/pyvimrc>`_

Limitations

----------

Compared to Vi Improved, Pyvim is still less powerful in many aspects.

- `prompt_toolkit` does not (or not yet) allow buffers to have an individual cursor when buffers are opened in several windows. Currently, this results in some unexpected behaviour, when a file is displayed in two windows at the same time. (The cursor could be displayed in the wrong window and other windows will sometimes scroll along when the cursor moves.) This has to be fixed in the future.
- The data structure for a buffer is extremely simple. (Right now, it's just a Python string, and an integer for the cursor position.) This works extremely well for development and quickly prototyping of new features, but it comes with a performance penalty. Depending on the system, when a file has above a thousand lines and syntax highlighting is enabled, editing will become noticeable slower. (The bottleneck is probably the `BufferControl` code, which on every key press tries to reflow the text and calls pygments for highlighting. And this is Python code looping through single characters.)
- A lot of nice Vim features, like line folding, macros, etcetera are not yet implemented.
- Windows support is not that nice. It works, but could be improved. (I think most Windows users are not that interested in this project, but prove me wrong.)
Roadmap
-------

There is no roadmap. I mostly implement the stuff which I need or interests me, or which gives me the opportunity to learn. But feel free to create a GitHub issue to request a new feature. Pull requests are also welcome. (Maybe create an issue first to discuss it, if you're unsure whether I'll merge it.)

Maybe some day we will have a better data structure (Rope), that makes it possible to open really large files. (With good algorithms, Python does not have to be slower than C code.)

Maybe we will also have line folding and probably block editing. Maybe some day we will have a built-in Python debugger or mouse support. We'll see. :)

Testing
-------

To run all tests, install pytest:

    pip install pytest

And then run from root pyvim directory:

    py.test

To test pyvim against all supported python versions, install tox:

    pip install tox

And then run from root pyvim directory:

    tox

You need to have installed all the supported versions of python in order to run tox command successfully.

Why did I create Pyvim?
-----------------------

There are several reasons.

The main reason is maybe because it was a small step after I created the Python `prompt-toolkit` library. That is a library which is actually only a simply pure Python readline replacement, but with some nice additions like syntax highlighting and multiline editing. It was never intended to be a toolkit for
full-screen terminal applications, but at some point I realised that everything we need for an editor was in there and I liked to challenge its design. So, I started an editor and the first proof of concept was literally just a few hundred lines of code, but it was already a working editor.

The creation of `pyvim` will make sure that we have a solid architecture for `prompt-toolkit`, but it also aims to demonstrate the flexibility of the library. When it makes sense, features of `pyvim` will move back to `prompt-toolkit`, which in turn also results in a better Python REPL. (see `ptpython <https://github.com/jonathanslenders/ptpython>`_, an alternative REPL.)

Above all, it is really fun to create an editor.

Alternatives
-------------

Certainly have a look at the alternatives:

- Kaa: https://github.com/kaaedit/kaa by @atsuoishimoto
- Vai: https://github.com/stefanoborini/vai by @stefanoborini
- Vis: https://github.com/martanne/vis by @martanne

Q & A:
------

Q
Do you use curses?
A
No, it uses only `prompt-toolkit`.

Thanks
------

- To Vi Improved, by Bram Moolenaar. For the inspiration.
- To Jedi, pyflakes and the docopt Python libraries.
- To the Python wcwidth port of Jeff Quast for support of double width characters.
- To Guido van Rossum, for creating Python.


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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/FaultHidingSink.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Authenticator.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/CookieJar.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/ConnectionSpecSelector.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/connection/RouteException.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/io/FileSystem.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/Util.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/HttpCodec.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-
jar/okhttp3/internal/http/HttpHeaders.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/Address.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/Jdk9Platform.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/InternalWebSocket.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/InternalWebSocketListener.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache2/Relay.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/platform/AndroidPlatform.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/tls/TrustRootIndex.java
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* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/internal/cache/CacheResponse.java
jar/okhttp3/internal/http2/PushObserver.java
* /opt/cola/permits/1125673732_1611398541.97/0/okhttp-3-12-12-sources-1-jar/okhttp3/RequestBody.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 3a0982da308228d796df35f98d787c5cff2bb5bb6.

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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<!- $Id$ -->

<!-- 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="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;', '')">
      <!-- Generate ISC copyright comments from Docbook copyright metadata. -->
    </xsl:if>
</xsl:template>

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* /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/win32/W32APIOptions.java
* /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/NativeString.java
* /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/InvocationMapper.java
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* /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/WeakMemoryHolder.java
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* /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/VarArgsChecker.java
* /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/Library.java
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* /opt/cola/permits/1252774624_1641970131.11/0/jna-5-10-0-sources-jar/com/sun/jna/TypeMapper.java
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The actual classes of The Simple API for CSS (SAC) came from:
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analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
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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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<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/wstrust/impl/ClaimsMarshaller.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/wssecurity/impl/UsernameTokenImpl.java</td>
</tr>
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<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/wssecurity/impl/ExpiresMarshaller.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/wssecurity/impl/AttributedDateTimeMarshaller.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/wsaddressing/impl/ProblemActionBuilder.java</td>
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<tr>
<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/wsaddressing/impl/AttributedURIImpl.java</td>
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<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/wstrust/impl/EncryptWithMarshaller.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/wsaddressing/impl/FaultToMarshaller.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/soap11/messaging/impl/package-info.java</td>
</tr>
<tr>
<td>* /opt/cola/permits/1247632468_1640311573.01/0/opensaml-soap-impl-4-0-1-sources-jar/org/opensaml/soap/wsaddressing/impl/AttributedQNameMarshaller.java</td>
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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
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  jar/io/netty/handler/codec/ProtocolDetectionState.java
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  jar/io/netty/handler/codec/string/LineSeparator.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/string/LineEncoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/compression/CompressionUtil.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/DatagramPacketDecoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/CodecOutputList.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/Checksum.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
  jar/io/netty/handler/codec/ByteBufferChecksum.java

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* */
* *
* Utility class for [@link ByteBuf] that encodes and decodes to and from
* <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* *
* 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
* Base64 Encoder/Decoder</a>.
* */

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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
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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.
 *
 * {@link LengthFieldBasedFrameDecoder} has many configuration parameters so
 * that it can decode any message with a length field, which is often seen in
 * proprietary client-server protocols. Here are some example that will give
 * you the basic idea on which option does what.
 *
 * <h3>2 bytes length field at offset 0, do not strip header</h3>
 *
 * The value of the length field in this example is <tt>12 (0x0C)</tt> which
 * represents the length of "HELLO, WORLD". By default, the decoder assumes
 * that the length field represents the number of the bytes that follows the
 * length field. Therefore, it can be decoded with the simplistic parameter
 * combination.
 *
 * <pre>
 * <b>lengthFieldOffset</b>   = <b>0</b>
 * <b>lengthFieldLength</b>   = <b>2</b>
 * lengthAdjustment    = 0
 * initialBytesToStrip = 0 (= do not strip header)
 *<pre>

 * 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)
  *
  * 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> for
  * compensation.
  * <pre>
  * lengthFieldOffset  = 0
  * lengthFieldLength  = 2
  * <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
  * initialBytesToStrip = 0
  *
  * BEFORE DECODE (14 bytes)    AFTER DECODE (14 bytes)
  * +----------------+   +----------------+
  * | Length | Actual Content |----->| Length | Actual Content |
  * | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
  * +----------------+   +----------------+
  * </pre>
  *
  * <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
  *
  * The following message is a simple variation of the first example. An extra
  * header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
  * again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <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>
* 
* 3 bytes length field at the beginning of 5 bytes header, do not strip header
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a
* positive <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>
* 
* 2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field
*
* This is a combination of all the examples above. There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <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>b</b>lengthAdjustment</b> = <b>b</b>-3</b> (= the length of HDR1 + LEN, negative) *
* <b>b</b>initialBytesToStrip</b> = <b>3</b>
* *
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +-----------------------+ +-----------------------+
* | HDR1 | Length | HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |
* +-----------------------+ +-----------------------+
* </pre>
* @see LengthFieldPrepender
*/

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jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/META-INF/maven/io.netty/netty-codec/pom.xml

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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
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* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-jar/io/netty/handler/codec/protobuf/package-info.java
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jar/io/netty/handler/codec/Headers.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1208967415_1632975990.81/0/netty-codec-4-1-68-final-sources-
jar/io/netty/handler/codec/EmptyHeaders.java

1.1546 libxrandr 1.5.2-0ubuntu1
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1.1548 logstash-codec-line 3.1.1
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The following is a list of people who have contributed ideas, code, bug reports, or in general have helped logstash along its way.

Contributors:
* Colin Surprenant (colinsurprenant)
* Jordan Sissel (jordansissel)
* Joo Duarte (jsvd)
* Pier-Hugues Pellerin (ph)
* Richard Pijnenburg (electrical)
* Suyog Rao (suyograo)

Note: If you've sent us patches, bug reports, or otherwise contributed to Logstash, and you aren't on the list above and want to be, please let us know and we'll make sure you're here. Contributions from folks like you are what make open source awesome.

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1.1549 kubernetes-client 5.8.0

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* /opt/cola/permits/1270978521_1644864139.32/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/StatusPatchable.java
* /opt/cola/permits/1270978521_1644864139.32/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Terminateable.java
* /opt/cola/permits/1270978521_1644864139.32/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/V1beta1BatchAPIGroupDSL.java
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* /opt/cola/permits/1270978521_1644864139.32/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/core/v1/ServiceOperationsImpl.java
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* /opt/cola/permits/1270978521_1644864139.32/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Cascading.java
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io.fabric8.kubernetes.client.V1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1BatchAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.SchedulingAPIGroupExtensionAdapter
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io.fabric8.kubernetes.client.V1ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1DiscoveryAPIGroupExtensionAdapter
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1.1550 libcxx 7.17.0

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1.1557 logback-core 1.1.3
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1.1558 tomcat-jaspic-api 9.0.63

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* /opt/cola/permits/1345518484_1655361689.2947288/0/tomcat-jaspic-api-9-0-63-sources-jar/javax/security/auth/message/callback/PasswordValidationCallback.java
* /opt/cola/permits/1345518484_1655361689.2947288/0/tomcat-jaspic-api-9-0-63-sources-jar/javax/security/auth/message/ClientAuth.java
* /opt/cola/permits/1345518484_1655361689.2947288/0/tomcat-jaspic-api-9-0-63-sources-jar/javax/security/auth/message/MessagePolicy.java
* /opt/cola/permits/1345518484_1655361689.2947288/0/tomcat-jaspic-api-9-0-63-sources-jar/javax/security/auth/message/config/ServerAuthConfig.java
* /opt/cola/permits/1345518484_1655361689.2947288/0/tomcat-jaspic-api-9-0-63-sources-jar/javax/security/auth/message/config/ServerAuthContext.java
* /opt/cola/permits/1345518484_1655361689.2947288/0/tomcat-jaspic-api-9-0-63-sources-jar/javax/security/auth/message/config/RegistrationListener.java
1.1559  jline-terminal 3.14.1

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Found in path(s):
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/Display.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/NonBlockingReaderImpl.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/Colors.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/LineDisciplineTerminal.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/AttributedStringBuilder.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/ExternalTerminal.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/NonBlockingInputStreamImpl.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/PosixSysTerminal.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/StyleResolver.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/Terminal.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/NonBlockingReader.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/NonBlocking.java

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* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/META-INF/maven/org.jline/jline-terminal/pom.xml

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black
maroon
green
olive
navy
purple
teal
silver
grey
red
lime
yellow
blue
fuchsia
aqua
white
grey0
navyblue
darkblue
blue3
blue3a
blue1
darkgreen
deepskyblue4
deepskyblue4a
Found in path(s):
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/colors.txt

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* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/ExecHelper.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/ExecPty.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/InputStreamReader.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/NativeSignalHandler.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/package-info.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/MotionEvent.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/Levenshtein.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/WCWidth.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/Signals.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/Attributes.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/ClosedException.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/spi/Pty.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/Signals.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-
jar/org/jline/utils/ShutdownHooks.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-
  jar/org/jline/terminal/impl/AbstractPosixTerminal.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/Log.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-
  jar/org/jline/utils/AttributedString.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/impl/MouseSupport.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/terminal/Cursor.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/OSUtils.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/package-info.java
* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/DiffHelper.java
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auto_left_margin, bw, bw
auto_right_margin, am, am
back_color_erase, bce, ut
can_change, ccc, cc
ceol_standout_glitch, xhp, xs
col_addr_glitch, xhpa, YA
cpi_changes_res, cpix, YF
cr_cancels_micro_mode, crxm, YB
dest_tabs_magic_smso, xt, xt
eat_newline_glitch, xenl, xn
erase_overstrike, eo, eo
generic_type, gn, gn
hard_copy, hc, hc
hard_cursor, chts, HC
has_meta_key, km, km
has_print_wheel, daisy, YC
has_status_line, hs, hs
hue_lightness_saturation, hls, hl
insert_null_glitch, in, in
lpi_changes_res, lpix, YG
memory_above, da, da
memory_below, db, db
move_insert_mode, mir, mi
move_standout_mode, msgr, ms
needs_xon_xoff, nxon, nx
no_esc_cctlc, xsb, xb
no_pad_char, npc, NP
non_dest_scroll_region, ndscr, ND
no_rev_rmcup, nrmc, NR
over_strike, os, os
ptr silent, mc5i, 5i
row_addr_glitch, xvpa, YD
semi_auto_right_margin, sam, YE
status_line_esc_ok, eslok, es
tilde_glitch, hz, hz
transparent_underline, ul, ul
xon_xoff, xon, xo
columns, cols, co
init_tabs, it, it
label_height, lh, lh
label_width, lw, lw
lines, lines, li
lines_of_memory, lm, lm
magic_cookie_glitch, xmc, sg
max_attributes, ma, ma
max_colors, colors, Co
max_pairs, pairs, pa
maximum_windows, wnum, MW
no_color_video, ncv, NC
num_labels, nlab, Nl
padding_baud_rate, pb, pb
virtual_terminal, vt, vt
width_status_line, wsl, ws
bit_image_entwining, bitwin, Yo
bit_image_type, bitype, Yp
buffer_capacity, bufsz, Ya
buttons, btns, BT
dot_horz_spacing, spinh, Yc
dot_vert_spacing, spinv, Yb
max_micro_address, maddr, Yd
max_micro_jump, mjjump, Ye
micro_col_size, mcs, Yf
micro_line_size, mls, Yg
number_of_pins, npins, Yh
output_res_char, orc, Yi
output_res_horz_inch, orhi, Yk
output_res_line, orl, Yj
output_res_vert_inch, orvi, Yl
print_rate, cps, Ym
wide_char_size, widcs, Yn
acs_chars, acsc, ac
back_tab, cbt, bt
bell, bel, bl
carriage_return, cr, cr
change_char_pitch, cpi, ZA
change_line_pitch, lpi, ZB
change_res_horz, chr, ZC
change_res_vert, cvr, ZD
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char_padding, rmp, rP
clear_all_tabs, tbc, ct
clear_margins, mgc, MC
clear_screen, clear, cl
clr_bol, el1, cb
clr_eol, el, ce
clr_eos, ed, cd
column_address, hpa, ch
command_character, cmdch, CC
create_window, cwin, CW
cursor_address, cup, cm
cursor_down, cud1, do
cursor_home, home, ho
cursor_invisible, civis, vi
cursor_left, cub1, le
cursor_mem_address, mrcup, CM
cursor_normal, cnorm, ve
cursor_right, cuf1, nd
cursor_to_ll, ll, ll
cursor_up, cuu1, up
cursor_visible, cvvis, vs
define_char, defc, ZE
delete_character, dch1, dc
delete_line, dl1, dl
dial_phone, dial, DI
dis_status_line, dsl, ds
display_clock, dclk, DK
down_half_line, hd, hd
ena_acs, enacs, eA
enter_alt_charset_mode, smacs, as
enter_am_mode, smam, SA
enter_blink_mode, blink, mb
enter_bold_mode, bold, md
enter_ca_mode, smcup, ti
enter_delete_mode, smde, dm
enter_dim_mode, dim, mh
enter_doublewide_mode, swidm, ZF
enter_draft_quality, sdrfq, ZG
enter_insert_mode, smir, im
enter_italics_mode, sitm, ZH
enter_leftward_mode, slm, ZI
enter_micro_mode, smicm, ZJ
enter_near_letter_quality, snlq, ZK
enter_normal_quality, snrmq, ZL
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enter_reverse_mode, rev, mr
enter_secure_mode, invis, mk
enter_shadow_mode, sshm, ZM
enter_standout_mode, smso, so
enter_subscript_mode, ssubm, ZN
enter_superscript_mode, ssupm, ZO
enter_underline_mode, smul, us
enter_upward_mode, sum, ZP
enter_xon_mode, smxon, SX
erase_chars, ech, ec
exit_alt_charset_mode, rmacs, ae
exit_am_mode, rmam, RA
exit_attribute_mode, sgr0, me
exit_ca_mode, rmcup, te
exit_delete_mode, rmdc, ed
exit_doublewide_mode, rwidm, ZQ
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exit_leftward_mode, rlm, ZS
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exit_shadow_mode, rshm, ZU
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exit_superscript_mode, rsupm, ZW
exit_underline_mode, rmul, ue
exit_upward_mode, rum, ZX
exit_xon_mode, rmxon, RX
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flash_hook, hook, fh
flash_screen, flash, vb
form_feed, ff, ff
from_status_line, fsl, fs
goto_window, wingo, WG
hangup, hup, HU
init_1string, is1, i1
init_2string, is2, is
init_3string, is3, i3
init_file, if, if
init_prog, iprog, iP
initialize_color, initc, lc
initialize_pair, initp, Ip
insert_character, ich1, ic
insert_line, il1, al
insert_padding, ip, ip
key_a1, ka1, K1
key_a3, ka3, K3
key_b2, kb2, K2
key_backspace, kbs, kb
key_beg, kbeg, @1
key_btab, kcbt, kB
key_c1, kc1, K4
key_c3, kc3, K5
key_cancel, kcan, @2
key_catab, ktbc, ka
key_clear, kclr, kC
key_close, kclo, @3
key_command, kcmd, @4
key_copy, kcpy, @5
key_create, kcrt, @6
key_catab, ktcb, kt
key_dc, kdch1, kD
key_dl, kd11, kL
key_down, kcud1, kd
key_eic, krmir, kM
key_end, kend, @7
key_eol, kel, kE
key_eos, ked, kS
key_exit, kext, @9
key_f0, kf0, k0
key_f1, kf1, k1
key_f10, kf10, k;
key_f11, kf11, F1
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key_f23, kf23, FD
key_f24, kf24, FE
key_f25, kf25, FF
key_f26, kf26, FG
key_f27, kf27, FH
key_f28, kf28, FI
key_f29, kf29, FJ
key_stab, khts, KT
key_sundo, kUND, !3
key_suspend, kspd, &7
key_undo, kund, &8
key_up, kcuu1, ku
keypad_local, rmkx, ke
keypad_xmit, smkx, ks
lab_f0, lf0, l0
lab_f1, lf1, 11
lab_f10, lf10, la
lab_f2, lf2, 12
lab_f3, lf3, 13
lab_f4, lf4, 14
lab_f5, lf5, 15
lab_f6, lf6, 16
lab_f7, lf7, 17
lab_f8, lf8, 18
lab_f9, lf9, 19
label_format, fln, Lf
label_off, rmln, LF
label_on, smln, LO
meta_off, rmm, mo
meta_on, smm, mm
micro_column_address, mhpa, ZY
micro_down, mcud1, ZZ
micro_left, mcub1, Za
micro_right, mcuf1, Zb
micro_row_address, mvpa, Zc
micro_up, mcuu1, Zd
newline, nel, nw
order_of_pins, porder, Ze
orig_colors, oc, oc
orig_pair, op, op
pad_char, pad, pc
parm_dch, dch, DC
parm_delete_line, dl, DL
parm_down_cursor, cud, DO
parm_down_micro, mcud, Zf
parm_ich, ich, IC
parm_index, indn, SF
parm_insert_line, il, AL
parm_left_cursor, cub, LE
parm_left_micro, mcub, Zg
parm_right_cursor, cuf, RI
parm_right_micro, mcuf, Zh
parm_rindex, rin, SR
parm_up_cursor, cuu, UP
parm_up_micro, mcuu, Z
enter_horizontal_hl_mode, ehhlm, Xh
enter_left_hl_mode, elhlm, Xl
enter_low_hl_mode, elohtm, Xo
enter_right_hl_mode, erhlm, Xr
enter_top_hl_mode, ethlm, Xt
enter_vertical_hl_mode, evhlm, Xv
set_a_attributes, sgr1, sA
set_pglen_inch, slength, sL

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* /opt/cola/permits/1258291790_1643053056.81/0/jline-terminal-3-14-1-sources-jar/org/jline/utils/capabilities.txt

1.1560 libgpg-error 1.35 1

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1.1564 netty-transport-native-unix-common

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1.1575 compress-lzf 0.8.4

1.1576 google-uuid 1.3.0

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1.1578 kafka-schema-registry-client 5.5.1

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Other developers who have contributed code are:

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<html lang="en">
<head>
<meta charset="utf-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta name="description" content="Home page of The Apache Software Foundation">
<link rel="apple-touch-icon" sizes="57x57" href="/favicons/apple-touch-icon-57x57.png">
<link rel="apple-touch-icon" sizes="60x60" href="/favicons/apple-touch-icon-60x60.png">
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</head>
```

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<meta name="msapplication-config" content="/favicons/browserconfig.xml">
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</head>

<body>
<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
</ul>
</div>
</div>
</nav>
</header>

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```
cd <SRC_PATH>
mvn package -DskipTests
mkdir /tmp/jars
mkdir /tmp/overrides
cd <LICENSE_TOOL_PATH>
./bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
```

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<html lang="en">
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<meta http-equiv="X-UA-Compatible" content="IE=edge">
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</head>

<body>

<!-- Navigation -->
<header>
<nav class="navbar navbar-default navbar-fixed-top">
<div class="container">
<div class="navbar-header">
<button class="navbar-toggle" type="button" data-toggle="collapse" data-target="#mainnav-collapse">
<span class="sr-only">Toggle navigation</span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
<span class="icon-bar"></span>
</button>
<a href="#" class="navbar-brand"><span class="glyphicon glyphicon-home"></span></a>
</div>
<div class="collapse navbar-collapse" id="mainnav-collapse">
<div style="line-height:20px; padding-top:5px; float:left"><a href="/">Home</a>&nbsp;&raquo&nbsp;<a href="/licenses/">Licenses</a></div>
<ul class="nav navbar-nav navbar-right">
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">About <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
<li><a href="/foundation/">Overview</a></li>
<li><a href="/foundation/members.html">Members</a></li>
<li><a href="/foundation/how-it-works.html">Process</a></li>
<li><a href="/foundation/sponsorship.html">Sponsorship</a></li>
<li><a href="/foundation/glossary.html">Glossary</a></li>
<li><a href="/foundation/preFAQ.html">FAQ</a></li>
<li><a href="/foundation/contact.html">Contact</a></li>
</ul>
</li>
<li><a href="/index.html#projects-list">Projects</a></li>
<li class="dropdown">
<a href="#" class="dropdown-toggle" data-toggle="dropdown">People <span class="caret"></span></a>
<ul class="dropdown-menu" role="menu">
</ul>
</li>
</ul>
</div>
</div>
</nav>
</header>

</body>
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1.1579 harfbuzz 2.6.4-1ubuntu4

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CAST128
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DES
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MD2
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MD5
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SHA224, SHA256, SHA384, and SHA512
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**1.1590 postgresql 13.4**

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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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Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8

1.1597 jersey-apache-connector 2.25.1

1.1598 netty-transport-classes-epoll

4.1.73.Final

1.1598.1 Available under license:

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Found in path(s):  
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1-73-final-sources-jar/io/netty/channel/epoll/Native.java  
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 */

/**
 * Set the {code TCP_MD5SIG} option on the socket. See {code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */
/**
 * Set the {code TCP_QUICKACK} option on the socket.
 * See <a href="https://linux.die.net//man/7/tcp">TCP_QUICKACK</a>
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 */

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* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannelConfig.java
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* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/LinuxSocket.java
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jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/Epoll.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/EpollTcpInfo.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/EpollEventLoop.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/EpollDatagramChannel.java

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 */
/**
 * Set the { @code TCP_MD5SIG} option on the socket. See { @code linux/tcp.h} for more details.
 * Keys can only be set on, not read to prevent a potential leak, as they are confidential.
 * Allowing them being read would mean anyone with access to the channel could get them.
 */

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* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4-1-73-final-sources-
jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java
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* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/cola/permits/1267543389_1644318747.85/0/netty-transport-classes-epoll-4.1.73-final-sources-jar/io/netty/channel/epoll/EpollServerChannelConfig.java

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* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/mk-ca-bundle.pl

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#
# certdata.txt
#
# This file contains the object definitions for the certs and other
# information "built into" NSS.
#
# Object definitions:
#
# Certificates
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 (varies)
# CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
# CKA_SUBJECT DER+base64 (varies)
# CKA_ID byte array (varies)
# CKA_ISSUER DER+base64 (varies)
# CKA_SERIAL_NUMBER DER+base64 (varies)
# CKA_VALUE DER+base64 (varies)
# CKA_NSS_EMAIL ASCII7 (unused here)
# CKA_NSS_SERVER_DISTRUST_AFTER DER+base64 (varies)
# CKA_NSS_EMAIL_DISTRUST_AFTER DER+base64 (varies)
#
# Trust
#
# -- Attribute -- -- type -- -- value --
# CKA_CLASS CK_OBJECT_CLASS CKO_TRUST
# CKA_TOKEN             CK_BBOOL        CK_TRUE
# CKA_PRIVATE            CK_BBOOL        CK_FALSE
# CKA_MODIFIABLE         CK_BBOOL        CK_FALSE
# CKA_LABEL              UTF8            (varies)
# CKA_ISSUER             DER+base64      (varies)
# CKA_SERIAL_NUMBER      DER+base64      (varies)
# CKA_CERT_HASH          binary+base64   (varies)
# CKA_EXPIRES            CK_DATE         (not used here)
# CKA_TRUST_DIGITAL_SIGNATURE CK_TRUST  (varies)
# CKA_TRUST_NON_REPUDIATION CK_TRUST     (varies)
# CKA_TRUST_KEY_ENCIIPHERMENT CK_TRUST   (varies)
# CKA_TRUST_DATA_ENCIIPHERMENT CK_TRUST   (varies)
# CKA_TRUST_KEY_AGREEMENT CK_TRUST       (varies)
# CKA_TRUST_KEY_CERT_SIGN CK_TRUST       (varies)
# CKA_TRUST_CRL_SIGN     CK_TRUST       (varies)
# CKA_TRUST_SERVER_AUTH  CK_TRUST       (varies)
# CKA_TRUST_CLIENT_AUTH  CK_TRUST       (varies)
# CKA_TRUST_CODE_SIGNING CK_TRUST       (varies)
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST    (varies)
# CKA_TRUST_IPSEC_END_SYSTEM CK_TRUST    (varies)
# CKA_TRUST_IPSEC_TUNNEL CK_TRUST       (varies)
# CKA_TRUST_IPSEC_USER   CK_TRUST       (varies)
# CKA_TRUST_TIME_STAMPING CK_TRUST       (varies)
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL    (varies)
# (other trust attributes can be defined)
#
# The object to tell NSS that this is a root list and we don't
# have to go looking for others.
#
BEGINDATA
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_BUILTIN_ROOT_LIST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Mozilla Builtin Roots"

# Certificate "GlobalSign Root CA"
#
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number:04:00:00:00:00:01:15:4b:5a:c3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After : Fri Jan 28 12:00:00 2028
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\127\060\011\013\010\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\017\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\060\003
\125\004\013\023\007\122\157\157\164\040\013\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\013\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\127\060\011\013\036\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\017\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\060\003
\125\004\013\023\007\122\157\157\164\040\013\101\061\033\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\013\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\001\125\113\132\303\224
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\165\060\020\02\013\024\000\003\002\001\002\002\101\130\004
\000\200\200\200\200\200\200\200\224\060\015\000\061\105\220\06
\110\206\367\150\001\001\005\005\000\060\127\061\013\060\011\006
\003\125\004\006\002\002\102\105\061\031\060\027\006\003\125\004
\120\203\020\017\154\157\142\141\154\123\151\147\156\040\156\166
\055\163\141\061\020\060\016\060\003\125\004\013\023\007\122\157
\157\164\040\013\101\061\033\060\031\006\003\125\004\003\023\022
\107\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040
\103\101\060\036\027\015\071\070\060\017\060\016\062\060\060
\060\060\060\132\027\015\062\070\060\061\062\070\061\062\060\060
\060\060\060\132\027\015\062\070\060\061\062\070\061\062\060\060
\105\061\103\010\060\027\006\003\125\004\012\023\020\017\154\157\142
\141\154\123\151\147\156\040\156\166\055\163\141\061\020\060\016
\006\003\125\004\013\023\007\122\157\157\164\040\103\101\061\033
\060\060\130\060\031\125\004\003\023\022\107\154\157\142\141\154\123
\151\147\156\040\122\157\157\164\040\103\101\060\020\001\014\020\060
\105\061\011\052\206\110\060\036\015\001\001\005\005\000\060\127
\061\013\060\011\006
\003\125\004\006\002\002\102\105\061\031\060\027\006\003\125\004
\120\203\020\017\154\157\142\141\154\123\151\147\156\040\122\157\157\164\040
\103\101\060\036\027\015\071\070\060\017\060\016\062\060\060
\060\060\060\132\027\015\062\070\060\061\062\070\061\062\060\060
\060\060\060\132\027\015\062\070\060\061\062\070\061\062\060\060
\060\060\060\127\061\013\060\011\006\003\125\004\006\023\002\102
\105\061\103\010\060\027\006\003\125\004\012\023\020\017\154\157\142
\141\154\123\151\147\156\040\156\166\055\163\141\061\020\060\016
\006\003\125\004\013\023\007\122\157\157\164\040\103\101\061\033
\060\060\130\060\031\125\004\003\023\022\107\154\157\142\141\154\123
\151\147\156\040\122\157\157\164\040\103\101\060\020\001\014\020\060
\105\061\011\052\206\110\060\036\015\001\001\005\005\000\060\127
\061\013\060\011\006
\003\125\004\006\002\002\102\105\061\031\060\027\006\003\125\004
\307\055\022\313\253\034\114\160\007\241\075\012\060\031\050\252\15
\117\370\335\324\214\120\025\034\357\120\356\304\056\367\374\351
\122\362\221\175\334\015\53\256\056\060\216\136\103\163\362\101\351
\325\152\343\262\211\072\126\071\070\157\006\074\210\151\133\052
\115\305\247\124\270\154\211\314\233\371\074\312\345\375\211\365
\022\074\222\170\026\326\363\344\164\156\223\104\141\321\215\307\016
\262\165\101\162\060\350\031\121\123\155\154\325\170\026\225\242\351
\310\012\070\353\362\044\023\117\163\124\223\023\205\072\033\327
\036\064\265\213\005\124\121\175\340\155\325\170\026\225\242\351
\123\156\220\316\173\067\164\271\160\107\221\042\121\143\026\171
\256\261\256\101\046\010\310\031\030\153\321\106\252\110\326\144\052
\327\023\064\377\054\052\030\115\304\110\312\007\025\347\323\174
\366\041\150\357\352\362\112\237\177\223\220\317\002\003\001\000
\001\243\102\060\100\006\001\160\060\031\125\305\017\001\001\377\004
\004\003\002\001\006\060\017\006\060\031\125\305\023\001\001\377\004
\005\060\003\001\137\77\060\035\006\031\125\035\016\004\026\004
\024\140\173\146\032\105\015\227\132\211\120\057\175\004\315\064
\250\377\374\375\131\060\015\006\060\110\52\206\110\206\367\015\001
\001\100\005\000\003\202\000\010\100\003\326\163\347\174\117\166\320
\215\277\354\272\242\276\064\305\050\062\265\174\374\154\234\054
\053\327\112\136\213\277\153\136\252\021\110\266\345\010\243\263
\312\075\141\115\323\106\011\263\076\303\240\343\143\125\033\362
\272\357\255\071\141\103\271\070\243\346\057\212\046\073\335\240
\120\126\373\136\012\375\070\315\304\013\160\121\224\227\230\004
\337\303\137\224\325\025\311\102\410\123\430\041\135\165\144\025\015
\377\125\060\354\206\217\377\015\357\054\271\143\106\366\252\2374
\337\274\151\375\056\022\110\144\232\340\022\356\026\406\357\051\217
\001\126\012\256\025\014\035\245\376\151\054\151\044\170\036\263\247
\034\161\142\356\031\120\227\254\027\135\212\302\370\107\206\156
\052\203\012\206\061\122\530\147\211\210\050\337\154\246\135\106\235
\014\252\202\344\311\213\335\160\267\333\126\075\141\344\152\341
\134\326\366\376\075\336\101\314\007\256\143\122\277\123\123\364
\053\351\130\375\266\367\202\137\205\322\101\030\333\201\263\004
\034\035\037\244\200\157\025\040\311\336\014\210\012\035\326\146
\125\342\374\110\311\051\046\151\1340
END

CKA_NSS_Mozilla_CA_Policy CK_BOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BOOL CK_FALSE

# Trust for Certificate "GlobalSign Root CA"
# Issuer: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Serial Number: 04:00:00:00:01:15:4b:5a:ec:3:94
# Subject: CN=GlobalSign Root CA,OU=Root CA,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Tue Sep 01 12:00:00 1998
# Not Valid After: Fri Jan 28 12:00:00 2028


```
# Certificate "Verisign Class 1 Public Primary Certification Authority - G3"
#
# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4
# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036
```

```
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\261\274\226\213\324\364\235\142\052\250\232\201\362\025\001\122
\244\035\202\234
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\076\105\122\025\011\121\222\341\267\135\067\237\261\207\051\212
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\020\060\016\006\003
\125\004\013\023\007\122\157\157\164\040\103\101\061\103\33\060\031
\006\003\125\004\003\023\022\107\154\157\142\141\154\123\151\147
\156\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\004\000\000\000\000\000\000\001\025\113\132\303\224
END
```

```
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```
END

CKA_ID UTF8 "0"

CKA_ISSUER_MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\000\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\040\005\040\010\006
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\030\006\031\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\010\154\141\163\163\040
\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063

END

CKA_SERIAL_NUMBER_MULTILINE_OCTAL
\002\021\000\213\133\165\126\204\124\205\013\000\317\257\070\110
\316\261\144

END

CKA_VALUE_MULTILINE_OCTAL
\060\202\004\032\060\020\003\002\002\021\000\213\133\165\126\204
\124\205\013\000\317\257\070\110\316\261\144

END

Open Source Used In cnBR Operations Hub 22.2 16717
# Trust for Certificate "Verisign Class 1 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",O="VeriSign, Inc.".,C=US

# Serial Number:00:8b:5b:75:56:84:54:85:0b:00:cf:af:38:48:ce:b1:a4

# Subject: CN=VeriSign Class 1 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",O="VeriSign, Inc.".,C=US

# Not Valid Before: Fri Oct 01 00:00:00 1999

# Not Valid After: Wed Jul 16 23:59:59 2036


CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 1 Public Primary Certification Authority - G3"

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

CKA_CERT_MD5_HASH MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL
# Certificate "Verisign Class 2 Public Primary Certification Authority - G3"

# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",O=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",O=VeriSign Trust Network,O="VeriSign, Inc.",C=US
# Not Valid Before: Fri Oct 01 00:00:00 1999
# Not Valid After : Wed Jul 16 23:59:59 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Verisign Class 2 Public Primary Certification Authority - G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125
\004\013\023\026\126\145\162\151\123\151\147\156\040\124\162\165
\163\164\040\116\145\161\167\157\162\153\061\072\060\070\006\003
\125\004\013\023\061\050\143\051\040\061\071\071\071\040\126\145
\162\151\123\151\147\156\054\040\111\156\143\056\040\055\040\106
\157\162\040\141\165\164\150\157\162\151\172\145\144\040\165\163
\145\040\157\156\154\171\061\105\060\103\006\003\125\004\003\023
\074\126\145\162\151\123\151\147\156\040\103\154\141\163\163\040
\060\024\120\165\141\154\151\143\040\120\162\151\155\141\162\171
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\040\055\040\107\063

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\312\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\027\060\025\006\003\125\004\012\023\016\126\145\162\151\123
\151\147\156\054\040\111\156\143\056\061\037\060\035\006\003\125

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Open Source Used In cnBR Operations Hub 22.2 16720
\2020\001\000\000\257\012\015\030\023\032\054\333\147\271\055\345\224
\047\335\245\276\340\260\115\217\263\141\126\074\326\174\303\364
\315\076\206\313\242\210\034\341\330\024\415\130\055\265\342\277\301
\246\107\120\136\106\071\123\325\226\272\265\157\024\277\020\0316
\047\023\236\060\107\233\061\172\023\330\037\331\132\002\067\213
\255\054\107\360\216\201\006\247\015\050\001\135\367\074\017\070\040
\035\334\162\107\360\216\201\006\247\015\060\014\135\367\074\017\070\040
\301\021\173\013\325\023\000\233\274\357\303\111\076\061\140\040
\205\052\325\220\266\151\213\240\314\062\335\267\375\100\125\262
\120\034\126\256\314\215\167\115\307\040\011\247\061\166\357\150
\222\212\220\036\101\020\112\262\265\151\143\212\320\131\034\304
\043\073\037\231\137\61\143\216\306\010\126\366\061\1366
\322\372\345\166\350\265\034\222\243\111\135\315\001\135\150\315
\251\151\272\243\335\305\015\124\244\040\246\301\240\305\032\1106
\114\027\155\322\254\146\077\226\214\340\204\332\240\066\377\042\131
\305\371\021\140\250\137\004\175\362\032\366\045\102\141\017\304
\112\270\076\211\002\003\000\000\000\000\016\060\015\050\011\052\260\110
\120\036\071\150\001\000\105\005\000\000\003\202\001\100\000\064\046\025
\074\300\215\115\013\111\013\357\255\315\041\122\327\146\234\267\336
\305\070\320\344\135\137\166\042\300\006\371\204\072\273\121\214
\265\353\375\140\366\135\001\160\004\260\310\135\335\247\003\021\070\063
\230\337\244\346\024\061\133\373\232\034\013\160\334\162\040\077\256
\356\005\072\424\063\077\013\071\254\160\107\163\113\231\053\337
\060\032\012\246\260\250\073\125\241\376\026\050\315\012\275\164\156
\200\333\047\104\247\316\104\135\324\032\222\030\015\361\022\224
\261\000\054\003\320\164\243\002\005\042\143\143\315\203\265\373
\301\151\142\153\151\165\375\135\151\011\127\365\277\174\337\276
\301\062\163\030\024\012\131\130\021\173\025\221\172\272\343\144\110
\260\177\373\066\045\353\222\250\312\361\044\024\027\335\030\200\153
\106\043\077\124\365\216\142\011\004\035\224\220\246\233\346\045
\342\121\052\252\270\220\255\276\010\217\251\131\020\030\022\4317
\162\071\341\261\103\340\050\317\267\347\132\154\023\153\111\263
\377\343\030\174\211\123\063\135\254\063\327\247\371\332\072\125
\311\130\020\371\125\357\132\266\317\113\133\337\052
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE

# For Email Distrust After: Wed Aug 31 00:00:00 2022

END

# Trust for Certificate "Verisign Class 2 Public Primary Certification Authority - G3"
# Issuer: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.".,C=US
# Subject: CN=VeriSign Class 2 Public Primary Certification Authority - G3,OU="(c) 1999 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.".,C=US
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After: Tue Jul 24 14:15:12 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\264\061\024\204\060\022\200\006\003\125\004\012\023\013\105\156
\164\162\165\163\164\056\156\145\164\061\100\060\076\060\003\125
\004\013\024\067\167\167\167\167\056\156\145\156\164\162\163\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\156\163\040\015\141\142\056\101\045\046\040\130\101\107\101\104\015
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\163\060\061\100\060\003\125\004\003\023\052\105\156\164
\162\163\163\164\056\156\145\164\040\131\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\264\163\164\160\056\156\145\164\061\100\060\076\060\003\125
\004\013\024\067\167\167\167\167\056\156\145\156\164\162\163\163\164\056
\156\145\164\057\103\120\123\137\062\060\064\070\040\151\156\143
\157\162\160\056\040\142\171\040\162\145\146\056\040\050\154\151
\155\151\156\163\040\015\141\142\056\101\045\046\040\130\101\107\101\104\015
\156\164\162\165\163\164\056\156\145\164\040\114\151\155\151\164
\145\144\061\163\060\061\100\060\003\125\004\003\023\052\105\156\164
\162\163\163\164\056\156\145\164\040\131\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
\040\050\062\060\064\070\051
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\070\336\370
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\052\060\022\022\240\003\002\001\002\002\004\070
\143\336\370\060\015\056\011\052\061\102\063\150\001\001\005
\005\000\060\021\264\061\102\240\060\022\006\003\125\004\012\023\013
\105\156\164\162\165\163\164\056\156\145\164\061\100\060\076\006
\003\125\004\013\024\067\167\167\167\167\056\145\156\164\162\165\163
Open Source Used In cnBR Operations Hub 22.2  16726

# Trust for "Entrust.net Premium 2048 Secure Server CA"
# Issuer: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 inc or by ref. (limits liab.),O=Entrust.net
# Serial Number: 946069240 (0x3863def8)
# Subject: CN=Entrust.net Certification Authority (2048),OU=(c) 1999 Entrust.net Limited,OU=www.entrust.net/CPS_2048 incorp. by ref. (limits liab.),O=Entrust.net
# Not Valid Before: Fri Dec 24 17:50:51 1999
# Not Valid After : Tue Jul 24 14:15:12 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust.net Premium 2048 Secure Server CA"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
002|004\070|143|336\370

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Baltimore CyberTrust Root"
#
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\006|\132|06|01|3\132|06|00|3\132|125\004\006|023\002|11|105\061
\022|060|020|000|003|125|004\012|023|01|102|141|154|164|151\155
\157|162|145|06|123\060|021\000|003|125|004\013|023|012|103\171
\142|145|162|124|162|165|163|164|06|104|2|06|04|006|003|125|004
\003|023|03|102|141|154|164|151|155|157|162|145|04|103|171|142
\145|162|124|162|165|163|164|04|122|157|157|164

END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\006|\132|06|01|3\132|06|00|3\132|125|004\006|023\002|11|105\061
\022|060|020|000|003|125|004\012|023|01|102|141|154|164|151\155
\157|162|145|06|123\060|021\000|003|125|004\013|023|012|103\171
\142|145|162|124|162|165|163|164|06|104|2|06|04|006|003|125|004
\003|023|03|102|141|154|164|151|155|157|162|145|04|103|171|142
\145|162|124|162|165|163|164|04|122|157|157|164

END
OPEN SOURCE USED IN cnBR OPERATIONS HUB 22.2

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Baltimore CyberTrust Root"
# Issuer: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Serial Number: 33554617 (0x20000b9)
# Subject: CN=Baltimore CyberTrust Root,OU=CyberTrust,O=Baltimore,C=IE
# Not Valid Before: Fri May 12 18:46:00 2000
# Not Valid After : Mon May 12 23:59:00 2025
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Baltimore CyberTrust Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\324\336\040\320\136\146\374\123\376\032\120\210\054\170\333\050
\122\312\344\164
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\254\266\224\245\234\027\340\327\221\122\233\261\227\006\246\344
END
CKA_ISSUER_MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\111\115\061
\022\060\020\006\003\125\004\012\023\111\112\141\154\164\151\155
\157\162\145\061\023\060\021\006\003\125\004\013\023\112\103\171
\142\145\162\124\162\165\163\164\061\042\060\040\006\003\125\004
\003\023\031\102\141\154\164\151\155\157\162\145\040\010\171\142
\145\162\124\162\165\163\164\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\002\000\000\0271
END
Certificate "Entrust Root Certification Authority"

Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

Serial Number: 1164660820 (0x456b5054)

Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

Not Valid After: Fri Nov 27 20:53:42 2026

Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:3F:E4

Entry
Certificate "Entrust Root Certification Authority"

Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

Serial Number: 1164660820 (0x456b5054)

Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc.",OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc.",C=US

Not Valid After: Fri Nov 27 20:53:42 2026

Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:3F:E4
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END

CKA_VALUE MULTILINE_OCTAL
\060\202\004\221\060\015\006\011\052\206\110\206\367\015\001\001\005
\105\000\060\201\260\061\013\060\011\006\003\125\004\006\023\002
\125\123\016\026\060\024\006\003\125\004\012\023\015\015\156\164
\162\165\163\164\054\040\011\115\164\13\056\061\071\060\067\006\003
\125\004\013\023\060\167\167\167\167\056\145\156\164\162\165\163\164
\056\156\154\165\164\057\013\120\123\040\151\163\040\151\156\143\157
\162\160\157\162\141\164\145\144\040\142\171\040\162\145\146\145
\162\145\156\143\145\140\137\060\035\060\003\125\004\013\023\026
\050\143\143\143\140\060\066\060\066\040\105\156\164\162\165\163\164
\054\040\111\115\164\13\056\061\055\060\053\006\003\125\004\003\023
\044\105\156\164\162\165\163\164\040\122\157\157\164\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150

\157\162\151\157\161\167\060\036\027\150\066\066\061\061\062\067\062
\060\062\063\064\062\132\027\015\062\066\061\061\062\067\062\060
\065\063\064\062\132\023\060\201\260\061\130\060\11\006\003\125\004
\006\023\002\125\123\060\126\060\024\060\003\125\004\012\023\015
\105\156\164\162\165\163\164\054\040\111\115\164\13\056\061\071\060
\067\006\003\125\004\013\023\060\167\167\167\056\145\156\164\162
\165\163\164\056\156\145\164\057\013\120\123\040\151\163\040\151\156
\156\143\157\162\160\157\162\141\164\145\144\040\142\171\040\162
\145\146\145\162\145\156\143\145\037\060\035\006\003\125\004
\013\023\026\050\143\143\040\143\050\104\060\060\066\060\040\015\156
\164\162
\165\163\164\054\040\111\115\164\13\056\061\055\060\053\006\003\125
\004\003\023\144\105\156\164\162\165\163\164\040\122\157\157\164
\164\101\165\164\150\157\162\151\164\171\060\202\001\042\060\15\006\011
\052\206\110\206\367\150\001\10\001\000\050\000\003\020\001\017\000
\006\020\012\002\02\020\01\000\026\225\266\103\102\372\306
\155\052\157\110\337\224\114\071\127\005\356\353\171\021\101\150
\066\355\354\376\232\001\121\274\107\050\037\367\020\106\146\056
\015\306\032\261\032\116\036\061\313\022\225\120\260\311\137\061\213
\063\003\333\267\203\173\076\040\024\113\265\262\126\050\247\370
\340\271\100\161\067\305\13\107\162\227\052\150\000\042\225\142
\025\333\103\73\313\665\320\053\377\020\113\112\255\076\336\114\333
\220\200\120\03\011\212\204\000\035\040\001\207\050\030\315\373\375
\052\113\232\043\225\027\054\105\236\037\156\103\171\155\014\134
\230\376\110\247\305\043\107\134\146\375\156\347\036\264\366\150
\105\321\206\023\133\242\212\125\261\343\051\200\376\045\161\120
\255\276\274\172\254\122\226\113\252\121\215\344\023\061\031\350
# Trust for Certificate "Entrust Root Certification Authority"
# Issuer: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc. " ,OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc." ,C=US
# Serial Number: 1164660820 (0x456b5054)
# Subject: CN=Entrust Root Certification Authority,OU="(c) 2006 Entrust, Inc. " ,OU=www.entrust.net/CPS is incorporated by reference,O="Entrust, Inc." ,C=US
# Not Valid Before: Mon Nov 27 20:23:42 2006
# Not Valid After: Fri Nov 27 20:23:42 2026
# Fingerprint (MD5): D6:A5:C3:ED:5D:DD:3E:00:C1:3D:87:92:1F:1D:3F:E4
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\263\036\261\267\100\343\154\204\002\332\334\067\324\115\365\324
\147\111\122\371
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\245\303\355\135\335\076\000\301\075\207\222\037\035\077\344
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\260\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\011\111\156\143\056\061\071\060\067\006\003\125\004
\013\023\060\167\167\167\056\145\156\164\162\165\163\164\056\156
\145\164\057\103\120\123\040\151\156\143\157\162\160
\157\162\141\164\145\144\040\142\171\040\162\145\146\145\162\145
\156\143\145\060\137\060\035\006\003\125\004\013\023\026\050\143
\051\040\062\060\060\066\040\105\156\164\162\165\163\164\054\040
\111\156\143\056\061\055\060\053\060\003\125\004\003\023\044\105
\156\164\162\165\163\164\040\122\157\157\164\040\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162
\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\105\153\120\124
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Root CA"
#
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

Open Source Used In cnBR Operations Hub 22.2 16733
\261\356\376\252\106\131\176\317\065\054\325\266\332\135\367\110\063\024\124\260\353\331\157\316\213\103\325\033\332\226\073\035\131\002\003\000\010\000\0112\243\023\060\021\060\017\006\003\0125
\0350\230\010\137\77\004\005\060\000\030\011\003\377\060\015\006\011\052\206\110\206\367\015\001\001\005\005\050\000\003\202\000\010\000\270\215\316\157\317\347\072\212\372\173\362\060\104\222\154\264\071\076
\242\204\156\255\270\041\167\322\232\164\167\201\207\346\040\101\021\153\356\342\370\021\267\143\321\027\067\276\031\000\044\034\004\032
\114\353\075\252\147\157\055\324\315\376\145\061\016\305\033\324\016
\002\201\272\140\173\155\130\023\023\111\137\6\143\062\013\153\343
\072\300\254\253\073\260\350\033\223\011\121\124\020\203\306\064\340
\305\053\340\032\266\140\024\047\154\062\216\214\274\262\162\230
\317\315\314\077\271\131\004\041\012\202\232\266\127\374\346\046\103\251
\035\345\200\222\031\004\031\124\050\076\367\077\323\370\115\355\152
\012\072\223\023\123\073\024\043\023\143\234\077\321\027\047\171
\345\114\121\343\000\125\020\135\032\073\261\325\163\020\244\323
\362\274\156\144\365\132\126\220\250\307\161\114\164\017\056\161
\073\367\310\107\364\151\157\025\362\021\136\203\036\234\174\122
\256\375\002\332\022\250\131\147\030\333\224\160\335\233\261\151
\355\200\316\111\100\110\152\020\166\053\120\051\146\025\041\224\054
\350\140\052\233\205\112\100\363\153\212\044\354\006\260\054\163
END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Certum Root CA"
# Issuer: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Serial Number: 65568 (0x10020)
# Subject: CN=Certum CA,O=Unizeto Sp. z o.o.,C=PL
# Not Valid Before: Tue Jun 11 10:46:39 2002
# Not Valid After : Fri Jun 11 10:46:39 2027
CKA_CLASS CK OBJECT CLASS CKO_NSS TRUST
CKA_TOKEN CK BBOOL CK_TRUE
CKA PRIVATE CK BBOOL CK FALSE
CKA MODIFIABLE CK BBOOL CK FALSE
CKA LABEL UTF8 "Certum Root CA"
CKA_CERT SHA1 HASH MULTILINE OCTAL\142\122\334\100\367\021\103\242\057\336\236\367\064\216\006\102
\121\261\201\030
END
CKA CERT MD5 HASH MULTILINE OCTAL
\054\217\237\146\035\030\220\261\107\046\235\216\206\202\214\251
END
CKA_ISSUER MULTILINE OCTAL
\060\076\061\013\060\001\100\060\003\125\004\006\023\002\120\114\061
# Certificate "Comodo AAA Services root"

# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Subject: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028

END
# Trust for Certificate "Comodo AAA Services root"
# Issuer: CN=AAA Certificate Services,O=Comodo CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number: 1 (0x1)
# Not Valid Before: Thu Jan 01 00:00:00 2004
# Not Valid After : Sun Dec 31 23:59:59 2028

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Comodo AAA Services root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
# Certificate "QuoVadis Root CA 2"

# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After : Mon Nov 24 18:23:33 2031
cka_class CK_OBJECT_CLASS CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "QuoVadis Root CA 2"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject MULTILINE_OCTAL
\060\105\061\013\060\011\100\060\003\125\004\006\023\002\102\115\061
\031\106\002\076\006\003\125\004\012\23\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
cka_id UTF8 "0"
cka_issuer MULTILINE_OCTAL
\060\105\061\103\060\001\100\060\003\125\004\006\023\002\102\115\061
\031\106\002\076\006\003\125\004\012\23\020\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
# Trust for Certificate "QuoVadis Root CA 2"
# Issuer: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Serial Number: 1289 (0x509)
# Subject: CN=QuoVadis Root CA 2,O=QuoVadis Limited,C=BM
# Not Valid Before: Fri Nov 24 18:27:00 2006
# Not Valid After: Mon Nov 24 18:23:33 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 2"

# Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL

END
CKA_VALUE MULTILINE_OCTAL
Open Source Used In cnBR Operations Hub 22.2 16744
# Trust for Certificate "QuoVadis Root CA 3"
# Issuer: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
Open Source Used In cnBR Operations Hub 22.2  16746

# Serial Number: 1478 (0x5c6)
# Subject: CN=QuoVadis Root CA 3,O=QuoVadis Limited,C=BM
# Not Valid After : Mon Nov 24 19:06:44 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\037\111\024\367\330\164\225\035\335\256\002\300\276\375\072\055
\202\165\121\205
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\061\205\074\142\224\227\143\271\252\375\211\116\257\157\340\317
END
CKA_ISSUER MULTILINE_OCTAL
\060\010\006\010\130\060\010\006\003\125\004\012\230\202\121\165\157\126\141\144
\151\163\040\114\151\155\151\164\145\144\061\033\060\031\006\003
\125\004\003\023\022\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\103\101\040\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\005\306
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "Security Communication Root CA"
# # Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# # Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"
OPEN SOURCE USED IN cnBR OPERATIONS HUB 22.2  16748

# Trust for Certificate "Security Communication Root CA"
# Issuer: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA1,O=SECOM Trust.net,C=JP
# Not Valid Before: Tue Sep 30 04:20:49 2003
# Not Valid After : Sat Sep 30 04:20:49 2023

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication Root CA"

END
# Certificate "Camerfirma Chambers of Commerce Root"

# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL

# Certificate "Camerfirma Chambers of Commerce Root"

# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL

# Certificate "Camerfirma Chambers of Commerce Root"

# Issuer: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Chambers of Commerce Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:13:43 2003
# Not Valid After : Wed Sep 30 16:13:44 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Chambers of Commerce Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\017\006\010\013\060\001\11\006\000\003\125\000\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\011\010\040\013\141\155
\145\162\146\151\162\155\141\040\123\010\040\103\111\110\064\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\016\006\003\125\004
\013\023\033\015\016\141\016\016\072\057\057\167\167\056\143\150\141
\141\155\142\145\162\163\151\147\156\056\157\157\162\147\061\042\060
\040\006\003\125\004\043\030\023\011\103\150\141\155\142\145\162\163
\040\157\146\040\103\157\155\155\145\162\143\145\040\122\157\157
\164

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_VALUE MULTILINE_OCTAL
\060\202\001\000

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Mon Mar 01 00:00:00 2021
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
0620610600630600610600600606006006010632
END

# Trust for Certificate "Camerfirma Global Chambersign Root"
# Issuer: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Serial Number: 0 (0x0)
# Subject: CN=Global Chambersign Root,OU=http://www.chambersign.org,O=AC Camerfirma SA CIF
A82743287,C=EU
# Not Valid Before: Tue Sep 30 16:14:18 2003
# Not Valid After : Wed Sep 30 16:14:20 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Camerfirma Global Chambersign Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\063\323\153\024\120\044\233\125\172\001\207\162\204\331\134\0057
\303\322\330\0351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\305\346\173\277\006\320\117\103\355\304\172\145\212\373\153\031
END
CKA_ISSUER MULTILINE_OCTAL
\060\175\061\013\060\011\006\003\125\004\006\023\002\105\125\061
\047\060\045\006\003\125\004\012\023\036\101\103\040\103\141\155
\145\162\146\151\162\155\141\040\123\101\040\103\111\106\040\101
\070\062\067\064\063\062\070\067\061\043\060\041\006\003\125\004
\013\023\032\150\164\164\160\072\057\057\167\167\167\167\167\167\056\143\150
\141\155\142\145\162\163\151\147\156\056\157\162\147\061\104\060\103
\036\006\003\125\004\003\023\027\107\154\157\142\141\154\040\103
\150\141\155\142\145\162\163\151\147\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "XRamp Global CA Root"
#
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services
# Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services
# Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\063\323\153\024\120\044\233\125\172\001\207\162\204\331\134\0057
\303\322\330\0351
END

Open Source Used In cnBR Operations Hub 22.2 16756
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "XRamp Global CA Root"
# Issuer: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US
# Subject: CN=XRamp Global Certification Authority,O=XRamp Security Services Inc,OU=www.xrampsecurity.com,C=US
# Not Valid Before: Mon Nov 01 17:14:04 2004
# Not Valid After : Mon Jan 01 05:37:19 2035
# Fingerprint (MD5): A1:0B:44:B3:CA:10:D8:00:6E:9D:0F:D8:0F:92:0A:D1
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "XRamp Global CA Root"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\270\001\206\321\353\234\206\245\101\004\317\060\124\363\114\122
\267\345\130\306
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\013\104\263\312\020\033\000\156\235\017\330\017\222\012\321
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\120\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\036\060\034\006\003\125\004\013\023\025\167\167\167\056\170
\162\141\155\160\163\145\143\165\162\151\164\171\156\143\157\155
\061\044\060\042\006\003\125\004\012\023\033\130\122\141\155\160
\104\123\145\143\165\162\151\164\171\161\040\123\145\162\166\151\143
\145\163\140\111\156\143\061\055\060\053\006\003\125\004\003\023
\044\130\122\141\155\160\040\107\154\157\142\141\154\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\120\020\224\154\354\030\352\325\234\115\325\227\357\165\217
\240\255
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Go Daddy Class 2 CA"
#
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After: Thu Jun 29 17:06:20 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\060\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157
\040\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\143\056\061\061\060\057\060\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\004\000\060\202\002\350\240\003\002\001\002\002\001\000
\060\156\106\106\011\010\026\011\026\036\015\001\001\005\005\000\060
\143\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\060\037\006\003\125\004\012\023\030\124\150\145\040\107\157\040
\104\141\144\144\171\040\107\162\157\165\160\054\040\111\156
\156\061\061\060\057\060\003\125\004\013\023\050\107\157\040
\104\141\144\144\171\040\103\154\141\163\163\040\062\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171
END
# Trust for Certificate "Go Daddy Class 2 CA"
# Issuer: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc." ,C=US
# Serial Number: 0 (0x0)
# Subject: OU=Go Daddy Class 2 Certification Authority,O="The Go Daddy Group, Inc." ,C=US
# Not Valid Before: Tue Jun 29 17:06:20 2004
# Not Valid After : Thu Jun 29 17:06:20 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Class 2 CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\047\226\272\346\077\030\001\342\167\046\033\240\327\167\002
\217\040\356\344
END
CKA CERT MD5 HASH MULTILINE_OCTAL
\221\336\006\045\253\332\062\027\014\273\045\027\052\204\147
END
CKA_ISSUER MULTILINE_OCTAL
\002\001\000
END
CKA TRUST SERVER AUTH CK TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA TRUST STEP UP APPROVED CK_BBOOL CK_FALSE

# Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc." ,C=US
# Serial Number: 0 (0x0)
# Trust for Certificate "Starfield Class 2 CA"
# Issuer: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Serial Number: 0 (0x0)
# Subject: OU=Starfield Class 2 Certification Authority,O="Starfield Technologies, Inc.",C=US
# Not Valid Before: Tue Jun 29 17:39:16 2004
# Not Valid After : Thu Jun 29 17:39:16 2034
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Class 2 CA"

# Certificate "DigiCert Assured ID Root CA"
# Trust for Certificate "DigiCert Assured ID Root CA"

# Issuer: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Serial Number:0c:e7:e0:e5:17:d8:46:fe:8f:e5:60:fc:1b:f0:30:39
# Subject: CN=DigiCert Assured ID Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
"0051432701430151423271132273102530361113337265250"
"231262115103"
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
"06014500610130600110060031125004006023002125123061"
"02506002300000031250040120230141041511471511031451"
"162164040111115614306103110600270060031125004013023"
"020167167167056144151151143145162164056143157"
"155061044060004200600031250040030230331041151147151"
"1031451621640401011163163165162145144040111104040"
"122157157164040103101"
END

CKA_ISSUER MULTILINE_OCTAL
"06014500610130600110060031125004006023002125123061"
"02506002300000031250040120230141041511471511031451"
"162164040111115614306103110600270060031125004013023"
"020167167167056144151151143145162164056143157"
"155061044060004200600031250040030230331041151147151"
"1031451621640401011163163165162145144040111104040"
"122157157164040103101"
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
"00202001403473400345027330106376217345140374033360"
"060071"
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Global Root CA"
#
# Trust for Certificate "DigiCert Global Root CA"
# Issuer: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After: Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\250\230\135\072\145\345\345\304\262\327\326\155\100\306\335\057\261\234\124\066

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\171\344\251\204\015\175\072\226\327\300\117\342\103\114\211\056

CKA_ISSUER MULTILINE_OCTAL
\060\041\061\013\060\001\006\003\125\004\006\023\002\125\123\061\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145 \162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023 \020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157 \155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151 \103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164 \040\103\101

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\010\073\340\126\220\102\106\261\124\165\152\311\131\221 \307\112

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
<table>
<thead>
<tr>
<th>Attribute</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subject</td>
<td>CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US</td>
</tr>
<tr>
<td>Not Valid Before</td>
<td>Fri Nov 10 00:00:00 2006</td>
</tr>
<tr>
<td>Not Valid After</td>
<td>Mon Nov 10 00:00:00 2031</td>
</tr>
<tr>
<td>CKA_CLASS</td>
<td>CK_OBJECT_CLASS</td>
</tr>
<tr>
<td>CKA_TOKEN</td>
<td>CK_TRUE</td>
</tr>
<tr>
<td>CKA_PRIVATE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_MODIFIABLE</td>
<td>CK_FALSE</td>
</tr>
<tr>
<td>CKA_LABEL</td>
<td>UTF8 &quot;DigiCert High Assurance EV Root CA&quot;</td>
</tr>
<tr>
<td>CKA_CERTIFICATE_TYPE</td>
<td>CK_CERTIFICATE_TYPE</td>
</tr>
<tr>
<td>CKA_SUBJECT</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_ID</td>
<td>UTF8 &quot;0&quot;</td>
</tr>
<tr>
<td>CKA_ISSUER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_SERIAL_NUMBER</td>
<td>MULTILINE_OCTAL</td>
</tr>
<tr>
<td>CKA_VALUE</td>
<td>MULTILINE_OCTAL</td>
</tr>
</tbody>
</table>

```c
\060\154\061\101\13\060\01\11\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\056\144\151\147\151\141\343\145\162\164\056\143\157
\155\061\030\060\051\006\003\125\004\030\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101
END

CKA_ID UTF8 "0"
```
# Trust for Certificate "DigiCert High Assurance EV Root CA"
# Issuer: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert High Assurance EV Root CA,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Fri Nov 10 00:00:00 2006
# Not Valid After : Mon Nov 10 00:00:00 2031

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert High Assurance EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\137\267\356\006\063\342\131\333\255\014\114\232\346\323\217\032
\141\070\334\045

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\324\164\336\027\126\232\234\205\203\305\300\145\111\212

CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\306\001\100\060\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\053\060\051\006\003\125\004\003\023\042\104\151\147\151
\103\145\162\164\040\110\151\147\150\040\101\163\163\165\162\141
\156\143\145\040\105\126\040\122\157\157\164\040\103\101

END

# Certificate "SwissSign Platinum CA - G2"
#
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number: 4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2, O=SwissSign AG, C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After: Sat Oct 25 08:36:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Platinum CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT CK_MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151\156\165\155\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER CK_MULTILINE_OCTAL
\060\111\061\013\060\011\006\003\125\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151\156\165\155\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER CK_MULTILINE_OCTAL
\002\020\010\116\262\200\001\147\014\003\035\117
END
CKA_VALUE CK_MULTILINE_OCTAL
\060\020\020\005\301\061\060\020\003\125\124\000\003\022\001\002\002\010\011
\262\200\000\147\014\003\035\117\060\010\015\010\001\010\005\000\005\006\011\011\061\010\301\010\006\003\125\004\006\023\002\103\110\061\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123\151\147\156\040\120\154\141\164\151\156\165\155\040\103\101\040\055\040\107\062
END
# Trust for Certificate "SwissSign Platinum CA - G2"
# Issuer: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Serial Number:4e:b2:00:67:0c:03:5d:4f
# Subject: CN=SwissSign Platinum CA - G2,O=SwissSign AG,C=CH
# Not Valid Before: Wed Oct 25 08:36:00 2006
# Not Valid After : Sat Oct 25 08:36:00 2036

CKA_NSS_MOZZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "SwissSign Gold CA - G2"
#
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
# Certificate "SwissSign Gold CA - G2"
#
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:43:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
CJK_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CJK_TOKEN CK_BBOOL CK_TRUE
CJK_PRIVATE CK_BBOOL CK_FALSE
CJK_MODIFIABLE CK_BBOOL CK_FALSE
CJK_LABEL UTF8 "SwissSign Gold CA - G2"
CJK_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CJK_SUBJECT MULTILINE_OCTAL
\060\010\050\061\013\060\001\110\066\003\125\004\0100\002\020\013\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\0101\107\061\0100\043\0100\066\003\125\004\003\023
\032\123\167\151\163\163\123\151\147\156\040\1201\154\141\164\151
\156\161\155\040\103\101\040\055\040\107\062
END
CJK_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\116\262\000\147\014\000\135\117
END
CJK_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CJK_TOKEN CK_BBOOL CK_TRUE
CJK_PRIVATE CK_BBOOL CK_FALSE
CJK_MODIFIABLE CK_BBOOL CK_FALSE
CJK_LABEL UTF8 "SwissSign Gold CA - G2"
CJK_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CJK_SUBJECT MULTILINE_OCTAL
\060\010\050\061\013\060\001\110\066\003\125\004\0100\002\020\013\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\0101\107\061\0100\043\0100\066\003\125\004\003\023
\026\123\167\151\163\163\123\151\147\156\040\1201\154\141\164\151
\156\161\155\040\103\101\040\055\040\107\062
END

Open Source Used in cnBR Operations Hub 22.2 16778
# Trust for Certificate "SwissSign Gold CA - G2"
# Issuer: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Serial Number:00:bb:40:1c:f5:5e:4f:b0
# Subject: CN=SwissSign Gold CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:30:35 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Gold CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\243\276\043\257\256\375\157\003\340\002\073\060\166\372\033\155
\101\317\001\261\351\257\311\146\364\333\046\363\072\244\164\362
\111\044\133\311\260\320\127\301\372\076\172\341\227\311
END

# Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\103\060\011\110\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\011\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\103\060\011\110\006\003\125\004\006\023\002\103\110\061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\010\107\061\041\060\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\003\257\060\020\023\245\240\003\020\001\002\002\010\117
\033\324\057\124\273\057\113\060\015\006\010\011\052\206\110\206\367
\015\001\000\010\005\000\000\006\107\061\013\060\001\110\006\003\0125\004
\006\023\002\010\103\109\061\125\060\023\006\003\125\004\012\203\014
\123\167\151\163\163\123\151\147\156\040\010\107\061\041\060\037\006
\006\033\125\004\003\023\030\123\167\151\163\163\123\151\147\156
\040\123\151\154\166\145\162\040\013\101\040\055\040\107\062\060
\036\027\015\060\066\061\106\062\065\060\070\063\062\064\066\132
\027\015\063\060\066\106\060\062\065\060\070\063\062\064\066\132\060
\107\061\103\060\011\006\003\0125\004\006\023\002\010\103\109\061\025
\060\023\006\003\125\004\012\203\014\123\167\151\163\163\123\151
\147\156\040\010\107\061\041\060\037\006\003\125\004\003\023\030
\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145\162
\040\103\101\040\055\040\107\062\060\020\002\012\202\002\001\000\034\361\207\177\323\170\061
\367\070\311\037\030\033\231\103\274\307\367\274\067\347\116\161\1272
\113\217\245\163\035\134\156\230\256\003\127\256\070\067\103\057
\304\052\331\327\303\37\162\356\376\121\241\042\101\261\161\002\143
\032\202\260\142\253\136\127\202\037\337\313\335\165\240\300\135
\171\220\214\033\334\040\212\346\360\061\376\230\173\160\137\245\220
\330\255\370\002\266\157\323\140\335\100\113\040\230\075\255\072
\172\237\032\032\107\221\171\063\272\202\334\062\151\003\226\156
\037\113\360\161\376\343\147\162\240\261\127\173\134\213\344\372\231
\042\307\204\271\032\150\142\253\136\127\202\101\042\132\242\137\135\054\350\113
\311\155\251\140\141\170\252\140\306\126\217\001\132\014\150\024
\151\031\171\040\37\176\227\005\277\305\351\044\121\113\324\325
\113\123\355\331\043\132\066\003\145\243\301\003\255\101\060\363
\106\033\205\220\025\145\265\325\261\344\026\133\170\165\035\227
\172\155\131\251\052\217\173\336\303\207\211\020\231\111\163\170
\310\075\275\121\065\164\052\325\361\176\151\033\052\273\073\275
\045\270\232\132\075\162\141\220\146\207\356\014\326\115\153\240\221
\164\013\152\376\013\003\374\243\125\127\211\173\61\123\13\256\133
\027\005\310\362\215\054\306\123\070\032\220\055\152\077\202\271\121
\101\015\362\167\136\101\164\156\030\021\176\007\254\051\140\221\077
\070\312\127\020\015\275\060\057\307\245\346\101\124\032\256\005
\207\232\240\244\145\154\114\011\014\211\127\270\323\271\130\023
\121\060\372\215\345\322\153\025\001\116\147\252\332\142\126\076
\204\010\146\322\304\066\175\247\076\020\374\210\340\324\200\345
\000\275\252\363\116\006\243\172\152\371\142\162\343\011\117\353
\233\301\000\043\361\237\273\174\334\334\154\021\227\045\262\362
\264\143\024\322\006\052\147\214\203\365\316\352\007\330\223\152
\036\354\344\012\273\052\114\353\011\140\071\131\61\121\142\330\056
\156
END
CKA_NSS MOZILLA CA POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER DISTRUST AFTER CK_BBOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "SwissSign Silver CA - G2"
# Issuer: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Serial Number:4f:1b:d4:2f:54:bb:2f:4b
# Subject: CN=SwissSign Silver CA - G2,O=SwissSign AG,C=CH
# Not Valid After : Sat Oct 25 08:32:46 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SwissSign Silver CA - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\233\252\345\237\126\356\041\313\103\132\276\045\223\337\247\360
\100\321\035\313
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\340\006\241\311\175\317\311\374\015\300\126\165\226\330\142\023

END

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\13\060\011\1006\003\125\004\006\023\002\103\110\0061
\025\060\023\006\003\125\004\012\023\014\123\167\151\163\163\123
\151\147\156\040\101\107\061\041\106\037\006\003\125\004\003\023
\030\123\167\151\163\163\123\151\147\156\040\123\151\154\166\145
\162\040\103\101\040\055\040\107\062

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\117\033\324\057\124\273\057\113

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "SecureTrust CA"
#
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number: 0c:f0:8e:5c:08:16:a5:ad:42:7f:0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After: Mon Dec 31 19:40:55 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\110\061\013\060\011\1006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165
\162\145\124\162\165\163\164\040\103\101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\1006\003\125\004\006\023\002\125\123\061
\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\141\164\151\157
\156\061\027\060\025\006\003\125\004\003\023\016\123\145\143\165

END
# Trust for Certificate "SecureTrust CA"
# Issuer: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Serial Number:0c:f0:8e:5c:08:16:a5:ad:42:7f:f0:eb:27:18:59:d0
# Subject: CN=SecureTrust CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:31:18 2006
# Not Valid After : Mon Dec 31 19:40:55 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureTrust CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\207\202\306\303\004\065\073\317\322\226\222\322\131\076\175\104\331\064\377\021

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\334\062\303\247\155\045\127\307\150\011\235\352\055\251\242\321

CKA_ISSUER MULTILINE_OCTAL
\060\011\030\013\060\001\006\003\125\004\006\023\002\125\123\061\040\060\036\006\003\125\004\012\023\027\123\145\143\165\162\145\124\162\165\163\164\040\013\157\162\160\157\162\141\164\151\157
# Certificate "Secure Global CA"

# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After: Mon Dec 31 19:52:06 2029

cka_class CK_OBJECT_CLASS CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "Secure Global CA"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject multiline_octal
0601120610130601010606091125004d006d023402310251023061
04006003600600312500400234023027123145143165162145
124162165163164040103157162160157162141164151157
156061031060027006003125004003023020123145143165
162145140107154157142141154040103101
end
cka_id UTF8 "0"
cko_issuer multiline_octal
060112061013060101060603031250049006d023402310251023061
0400600360060031250040012023027123145143165162145
124162165163164040103157162160157162141164151157
156061031060027006003125004003023020123145143165
162145140107154157142141154040103101
end
cka_serial_number multiline_octal
0020200014360a21613401002624525501021773600353047f030
131320
end
cka_trust_server_auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_email_protection CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE

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Open Source Used In cnBR Operations Hub 22.2 16788
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Secure Global CA"
# Issuer: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Subject: CN=Secure Global CA,O=SecureTrust Corporation,C=US
# Not Valid Before: Tue Nov 07 19:42:28 2006
# Not Valid After : Mon Dec 31 19:52:06 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Secure Global CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\072\104\163\132\245\120\115\103\025\140\162\160\162\141\157\156\072\033
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\137\364\047\015\324\355\334\145\026\111\155\075\332\277\156\336
CKA_ISSUER MULTILINE_OCTAL
\012\112\063\036\001\110\006\003\125\004\006\023\002\125\123\061
\040\060\063\060\003\125\004\012\023\027\123\145\143\165\162\145
\124\162\165\163\164\040\103\157\162\160\157\162\144\145\151\157
\156\061\031\066\027\006\003\125\004\003\023\020\123\145\143\165
\162\145\040\107\154\157\142\141\154\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\352\245
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "COMODO Certification Authority"
#
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:3e:35:02:46:ce:5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\141\046\060\045\006
\003\125\004\030\023\036\103\117\115\117\104\010\135\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\201\061\013\060\011\006\003\125\004\006\023\002\107\102
\061\033\060\031\006\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\141\046\060\045\006
\003\125\004\030\023\036\103\117\115\117\104\010\135\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
Open Source Used In cnBR Operations Hub 22.2  16792
# Trust for Certificate "COMODO Certification Authority"
# Issuer: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Serial Number:4e:81:2d:8a:82:65:e0:0b:02:ee:35:02:46:e5:3d
# Subject: CN=COMODO Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\146\061\277\236\367\117\236\266\311\132\5\246\014\272\152\276\321
\367\275\357\173
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\134\110\334\367\102\162\354\126\224\155\034\314\161\065\200\165
END

CKA_ISSUER MULTILINE_OCTAL
\060\020\012\010\061\013\060\001\11\006\003\013\125\004\006\023\002\107\0102
\061\033\060\031\006\003\013\125\004\010\023\022\107\162\145\141\164
\145\162\040\011\141\151\150\143\150\145\163\164\145\162\061\020\0060
\016\006\003\012\025\004\007\023\007\123\141\115\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117
\040\013\010\040\011\141\151\155\151\164\145\144\061\047\060\045\006
\003\125\004\003\023\036\010\117\115\171\040\013\145\162
\164\151\146\151\143\141\164\151\157\156\040\010\165\164\150\157
\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\116\201\055\212\202\145\340\013\002\356\076\065\002\106
\345\075
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Network Solutions Certificate Authority"
#
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\001\11\006\003\013\125\004\006\023\002\125\123\061
\041\060\037\060\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\012\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\061\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
Open Source Used in cnBR Operations Hub 22.2 16796

\022\224\261\104\042\340\032\002\002\003\001\000\000\01\243\201\227\060
\201\224\060\035\060\003\012\255\035\016\004\026\002\044\041\060\311
\373\000\327\116\230\332\207\252\032\202\247\056\261\100\061\124
\114\060\016\000\003\125\035\017\010\001\137\077\040\044\003\002\000
\006\060\017\000\003\125\035\023\010\001\137\077\040\056\060\003\001
\001\137\077\062\12\000\003\125\035\037\044\113\060\111\060\107\240
\105\240\103\206\101\150\164\164\160\072\205\057\143\162\154\056
\156\145\164\163\157\154\163\163\154\056\143\157\155\057\116\145
\164\167\157\162\153\123\157\154\165\164\151\157\156\163\103\145
\162\164\151\146\151\143\141\164\145\101\165\164\150\157\162\151
\164\171\056\143\162\154\060\015\006\011\052\206\110\206\367\015
\001\100\005\006\000\003\020\201\010\000\273\256\113\347\267\127
\353\177\252\055\267\163\107\205\152\301\134\44\245\035\344\347\074
\351\136\131\145\167\265\172\133\131\251\045\066\340\172\227\056
\070\300\127\140\203\230\006\203\237\271\166\172\156\120\340\027
\210\054\374\109\314\030\260\231\1225\21\21\016\354\035\270\210\377
\207\120\034\202\302\343\334\062\200\277\240\013\107\310\303\061
\357\231\147\062\200\117\027\041\171\014\151\134\336\136\064\256
\002\265\046\365\212\033\177\030\145\054\31\362\143\341\251\007
\376\174\161\037\153\063\044\152\036\005\367\005\150\300\152\022
\313\056\136\141\131\256\050\323\176\302\264\146\221\046\137\074
\056\044\137\313\130\017\353\050\354\257\201\222\63\334\173\157
\300\247\210\362\213\167\263\140\136\256\256\050\332\065\054\157
\064\105\323\240\343\133\363\354\133\170\047\153\026\174\275\104\004
\013\020\263\21\171\027\20\161\075\172\242\206\116\365\001\315
\244\154\145\150\241\11\116\134\103\31\130\274\066\147\154\245
\224\265\324\314\271\172\152\065\126\041\336\303\035\373\313
\244\140\114\260\125\240\240\173\127\262
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Network Solutions Certificate Authority"
# Issuer: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Subject: CN=Network Solutions Certificate Authority,O=Network Solutions L.L.C.,C=US
# Not Valid Before: Fri Dec 01 00:00:00 2006
# Not Valid After : Mon Dec 31 23:59:59 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Network Solutions Certificate Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\370\243\303\357\347\263\220\006\113\203\220\074\041\144\140
\040\0345\337\316

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\363\246\026\300\372\153\035\131\261\055\226\115\016\021\056

END

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\041\060\037\006\003\125\004\012\023\030\116\145\164\167\157\162
\153\040\123\157\154\165\164\151\157\156\163\040\114\056\114\056
\103\056\001\060\060\056\006\003\125\004\003\023\047\116\145\164
\167\157\162\153\040\123\157\154\165\164\151\157\156\163\040\103
\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157
\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\127\313\063\157\302\134\026\346\107\026\027\343\220\061
\150\340

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#

# Certificate "COMODO ECC Certification Authority"
#

# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater
Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\125\004\010\023\002\122\107\102
\061\033\060\031\060\003\125\004\010\023\022\107\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\000\031\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\000\003\125\004\010\023\021\013\117\115\117\104\117
\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051\006

Open Source Used In cnBR Operations Hub 22.2 16797
# Trust for Certificate "COMODO ECC Certification Authority"
# Issuer: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO ECC Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Thu Mar 06 00:00:00 2008
# Not Valid After: Mon Jan 18 23:59:59 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\237\164\116\237\053\115\272\354\017\061\054\120\266\126\073\216\055\223\303\021
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\174\142\377\164\235\061\123\136\150\112\325\170\252\036\277\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\103\060\001\110\060\003\125\004\006\023\002\107\102\061\033\060\031\060\003\125\004\010\023\022\107\162\145\141\164\145\162\040\115\141\156\143\150\145\163\164\154\165\162\061\020\060\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061\032\060\030\006\003\125\004\012\023\021\103\117\115\117\104\117\040\103\101\040\114\151\155\151\164\145\144\061\053\060\051

\003\125\004\003\023\042\103\117\115\117\104\117\040\105\103\103
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\037\107\257\252\142\000\160\120\124\114\001\236\233\143
\231\052
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "OISTE WISeKey Global Root GA CA"
#
# Issuer: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# 2005,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GA CA,OU=OISTE Foundation Endorsed,OU=Copyright (c)
# 2005,O=WISeKey,C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After : Fri Dec 11 16:09:51 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GA CA"
CKACERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\020\121\060\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\042\060\040\006\003\125\004\013\023\031\117\111\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\145\144\061\105\060\046\066\003\125\004\003\023\037\117\111
\123\124\105\040\127\111\123\145\131\145\171\040\107\154\157\142
\141\154\040\122\157\157\164\040\107\101\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\121\061\013\060\011\006\003\125\004\006\023\002\103\110
\061\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113
\145\171\061\033\060\031\006\003\125\004\013\023\022\103\157\160
\171\162\151\147\150\164\040\050\143\051\104\062\060\060\065\061
\156\347\052\357\217\071\101\126\061\120\048\202\133\100\024\111\110\056\172
\101\134\247\136\343\144\314\301\118\161\111\130\054\041\124\133\175
\340\035\032\105\021\133\303\033\150\367\275\226\033\125\4\160\261
\026\024\013\133\301\40\271\046\001\005\002\003\000\100\000\012\243\121
\060\017\060\013\000\006\000\033\125\035\017\004\004\003\002\001\126\060
\017\006\003\125\035\023\030\001\013\377\004\005\060\003\000\010\137
\060\035\000\060\031\125\035\016\004\026\000\042\024\026\3\033\176\256\166
\274\260\171\32\03\14\224\046\266\021\276\041\262\151\206\224\060
\020\006\011\105\3\006\000\101\004\001\120\267\025\001\004\003\002\001
\000\006\015\006\011\105\2\061\106\3\067\015\001\100\005\005\000
\003\020\001\000\000\113\241\377\013\207\316\263\371\130\110\032\61
\110\363\050\300\035\056\311\010\131\161\204\125\224\000\034\244\244\253
\111\171\217\075\036\357\115\157\275\274\244\366\362\046\060\311
\020\312\035\210\373\164\031\037\205\105\275\260\154\121\371\066
\176\333\365\114\062\072\101\117\131\107\317\350\13\105\266\304
\031\235\164\305\107\306\073\152\017\254\024\333\074\364\163\234
\251\005\337\000\334\164\170\372\370\065\140\113\002\230\030\174
\274\437\118\260\040\155\103\237\140\060\072\174\063\134\305\231
\321\370\055\071\122\163\373\214\252\227\045\134\162\233\100\036
\253\116\074\343\201\061\237\003\246\373\300\376\051\210\125\332
\204\325\120\000\266\342\204\243\246\066\252\021\072\200\134\030
\113\326\104\150\263\075\371\123\164\204\042\263\106\221\106\226\000
\267\200\054\266\341\134\302\204\342\333\242\347\050\217\000\122\61\42
\026\076\000\343\034\245\066\021\030\242\114\122\166\300\021\243
\156\346\035\272\343\132\276\066\123\305\076\165\217\206\151\051
\130\123\265\234\273\157\237\134\305\030\354\335\057\341\230\311
\374\276\337\012\015
END
CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for Certificate "OISTE WIsKey Global Root GA CA"
# Issuer: CN=OISTE WIsKey Global Root GA CA, OU=OISTE Foundation Endorsed, O=Copyright (c) 2005, O=WIsKey, C=CH
# Subject: CN=OISTE WIsKey Global Root GA CA, OU=OISTE Foundation Endorsed, O=Copyright (c) 2005, O=WIsKey, C=CH
# Not Valid Before: Sun Dec 11 16:03:44 2005
# Not Valid After: Fri Dec 11 16:09:51 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WIsKey Global Root GA CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "Certigna"

# Issuer: CN=Certigna,O=Dhimyotis,C=FR
# Serial Number:00:fe:dc:e3:01:0f:c9:48:ff
# Subject: CN=Certigna,O=Dhimyotis,C=FR
# Not Valid Before: Fri Jun 29 15:13:05 2007
# Not Valid After : Tue Jun 29 15:13:05 2027

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
<table>
<thead>
<tr>
<th>Key</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKA_NSS_MOZILLA_CA_POLICY</td>
<td>CK_BBOOL CK_TRUE</td>
</tr>
<tr>
<td>CKA_NSS_SERVER_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td>CKA_NSS_EMAIL_DISTRUST_AFTER</td>
<td>CK_BBOOL CK_FALSE</td>
</tr>
<tr>
<td># Trust for Certificate &quot;Certigna&quot;</td>
<td></td>
</tr>
<tr>
<td># Issuer: CN=Certigna,O=Dhimyotis,C=FR</td>
<td></td>
</tr>
<tr>
<td># Serial Number: 00:fe:dc:e3:01:0f:c9:48:ff</td>
<td></td>
</tr>
<tr>
<td># Subject: CN=Certigna,O=Dhimyotis,C=FR</td>
<td></td>
</tr>
<tr>
<td># Not Valid Before: Fri Jun 29 15:13:05 2007</td>
<td></td>
</tr>
<tr>
<td># Not Valid After: Tue Jun 29 15:13:05 2007</td>
<td></td>
</tr>
<tr>
<td>CKA_CLASS CK_OBJECT_CLASS</td>
<td>CKO_NSS_TRUST</td>
</tr>
<tr>
<td>CKA_TOKEN CK_BBOOL CK_TRUE</td>
<td></td>
</tr>
<tr>
<td>CKA_PRIVATE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_MODIFIABLE CK_BBOOL CK_FALSE</td>
<td></td>
</tr>
<tr>
<td>CKA_LABEL UTF8 &quot;Certigna&quot;</td>
<td></td>
</tr>
<tr>
<td>CKA_CERT_SHA1_HASH MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_CERT_MD5_HASH MULTILINE_OCTAL</td>
<td></td>
</tr>
<tr>
<td>CKA_ISSUER MULTILINE_OCTAL</td>
<td></td>
</tr>
</tbody>
</table>


\060\020\064\061\013\060\011\006\003\012\50\004\006\023\002\106\122\061
\022\060\020\066\003\012\50\004\012\014\011\104\150\151\155\171\157
\164\151\163\061\021\060\017\006\003\012\50\004\003\014\010\103\145
\162\164\151\147\156\141
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\376\334\343\001\017\311\110\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "ePKI Root Certification Authority"
#
# Issuer: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Serial Number: 15:6e:8d:65:47:5c:a8:3b:97:00:5e:4e:06:2d:bc:9d
# Subject: OU=ePKI Root Certification Authority,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After : Wed Dec 20 02:31:27 2034
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PUBLIC CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ePKI Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\012\50\004\006\023\002\124\127\061
\043\060\041\006\003\012\50\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\141\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\012\50\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\136\061\013\060\011\006\003\012\50\004\006\023\002\124\127\061
\043\060\041\006\003\012\50\004\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\141\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\052\060\050\006\003\012\50\004\013\014\041\145
\120\113\111\040\122\157\157\164\040\103\145\162\164\151\146\151
\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\025\030\275\145\107\134\257\270\227\000\136\344\006\322

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Open Source Used In cnBR Operations Hub 22.2 16806
# Trust for Certificate "ePKI Root Certification Authority"
# Issuer: OU=ePKI Root Certification Authority, O="Chunghwa Telecom Co., Ltd.", C=TW
# Serial Number: 15:e8:bd:65:47:5c:af:b8:97:00:5e:e4:06:d2:bc:9d
# Subject: OU=ePKI Root Certification Authority, O="Chunghwa Telecom Co., Ltd.", C=TW
# Not Valid Before: Mon Dec 20 02:31:27 2004
# Not Valid After: Wed Dec 20 02:31:27 2034

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA, O=certSIGN, C=RO
# Serial Number: 20:06:05:17:30:46
# Subject: OU=certSIGN ROOT CA, O=certSIGN, C=RO
# Not Valid Before: Tue Jul 04 17:20:04 2006
END

# Trust for Certificate "certSIGN ROOT CA"
# Issuer: OU=certSIGN ROOT CA,O=certSIGN,C=RO
# Serial Number: 20:06:05:16:70:02
# Not Valid Before: Tue Jul 04 17:20:04 2006
# Not Valid After: Fri Jul 04 17:20:04 2031

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN ROOT CA"
# Certificate "NetLock Arany (Class Gold) Ftanstvny"

# Issuer: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Serial Number:49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F..tan..s..tv..ny,OU=Tan..s..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After: Wed Dec 06 15:08:21 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Ftanstvny"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\214\061\013\060\011\100\060\03\125\004\006\023\002\110\125
\061\021\060\017\060\03\125\004\007\014\010\102\165\144\141\160
\145\163\164\061\025\060\023\006\03\125\004\012\014\014\116\145
\164\114\157\143\153\040\113\146\164\056\061\067\060\065\006\003
\125\004\013\040\056\124\141\156\139\327\163\139\255\164\166\303
\241\156\171\153\151\141\144\303\263\153\304\050\103\145\162\164
\151\146\151\143\141\164\151\157\156\040\123\145\162\166\151\143
\145\163\051\061\065\060\063\006\03\125\004\003\014\054\116\145
END

# Trust for Certificate "NetLock Arany (Class Gold) Ftanstvny"
# Issuer: CN=NetLock Arany (Class Gold) Ftanstvny,OU=Tan..tv..nykiad..k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
Open Source Used In cnBR Operations Hub 22.2 16815

# Serial Number: 49:41:2c:e4:00:10
# Subject: CN=NetLock Arany (Class Gold) F...tan...ns.tv...ny,OU=Tan...ns.tv...nykiad...k (Certification Services),O=NetLock Kft.,L=Budapest,C=HU
# Not Valid Before: Thu Dec 11 15:08:21 2008
# Not Valid After : Wed Dec 06 15:08:21 2028
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NetLock Arany (Class Gold) Funstvny"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\010\077\131\077\025\241\004\240\151\244\153\251\003\320\006\267\227\011\221
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\006\010\077\131\077\025\241\004\240\151\244\153\251\003\320\006\267\227\011\221
END

# Certificate "Hongkong Post Root CA 1"

# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Subject: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\011\100\060\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\011\100\060\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\003\350
END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\060\060\020\022\002\030\024\000\003\002\001\002\002\002\003
\135\006\060\150\011\052\206\110\206\367\015\000\100\100\005\005\000
\060\061\070\061\013\060\011\100\060\003\125\004\006\023\002\110\113\061
\026\060\024\006\003\125\004\012\023\015\110\157\156\147\153\157
\156\147\040\120\157\163\164\061\040\060\036\006\003\125\004\003
\023\027\110\157\156\147\153\157\156\147\040\120\157\163\164\040
\122\157\157\164\040\103\101\040\061

END

Open Source Used In cnBR Operations Hub 22.2 16816
END

cka_nss_mozilla_ca_policy ck_bbool ck_true
cka_nss_server_distrust_after ck_bbool ck_false
cka_nss_email_distrust_after ck_bbool ck_false

# Trust for Certificate "Hongkong Post Root CA 1"
# Issuer: CN=Hongkong Post Root CA 1,O=Hongkong Post,C=HK
# Serial Number: 1000 (0x3e8)
# Not Valid Before: Thu May 15 05:13:14 2003
# Not Valid After : Mon May 15 04:52:29 2023
cka_class ck_object_class cko_nss_trust
cka_token ck_bbool ck_true
cka_private ck_bbool ck_false
cka_modifiable ck_bbool ck_false
# Certificate "SecureSign RootCA11"

# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Subject: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END
CKA_ID UTF8 "0"
\125\035\017\001\001\377\004\004\000\002\000\006\006\001\006\000\003\\125\035\023\001\001\377\004\005\006\006\003\000\001\037\007\000\015\006\\011\052\206\110\206\367\015\000\001\000\005\005\000\000\003\202\001\001\000\024\201\070\026\146\056\247\126\037\041\234\006\372\035\355\\271\042\305\070\046\330\116\117\354\243\177\171\136\106\041\241\\207\167\217\007\010\232\262\244\305\257\017\062\230\013\174\146\\051\260\233\175\045\122\111\113\253\114\056\053\156\172\160\257\\026\016\334\002\215\343\102\346\030\235\150\330\125\310\350\073\\335\347\343\134\056\010\303\064\141\314\51\011\233\214\210\120\\137\225\034\277\355\253\042\265\145\263\205\027\236\017\270\255\\345\172\033\212\120\072\035\275\015\274\171\134\120\013\271\102\\257\125\240\030\021\255\145\231\137\276\344\234\277\304\205\253\\101\126\214\157\334\045\315\355\170\342\216\014\215\011\111\335\\143\173\132\151\226\002\041\250\275\122\131\351\175\065\313\310\\122\121\177\201\376\331\153\323\367\021\355\045\337\370\347\371\\244\372\162\227\204\123\015\245\320\062\030\121\166\131\024\154\\101\355\334\147\372\004\214\165\103\203\303\205\230\377\114\236\055\\101\544\167\203\223\116\265\226\007\213\050\023\233\214\031\215\\101\047\111\110\035\063\346\043\104\071\334\241\042\326\272\003\362\\END

CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for Certificate "SecureSign RootCA11"
# Issuer: CN=SecureSign RootCA11,O="Japan Certification Services, Inc.",C=JP
# Serial Number: 1 (0x1)
# Not Valid Before: Wed Apr 08 04:56:47 2009
# Not Valid After : Sun Apr 08 04:56:47 2029

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SecureSign RootCA11"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\073\034\023\017\010\003\063\163\240\036\275\370\133\261\033\145
\307\330\021\263
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\267\122\164\342\222\264\200\022\362\165\344\314\327\362\352\046
END

CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\001\010\060\003\125\004\006\023\002\112\120\061
\053\060\051\006\003\125\004\012\023\042\112\141\160\141\156\040

Open Source Used In cnBR Operations Hub 22.2 16820
# Trust for Certificate "Microsec e-Szigno Root CA 2009"
# Issuer: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:00:c2:7e:43:04:4e:47:3f:19
# Subject: E=info@e-szigno.hu,CN=Microsec e-Szigno Root CA 2009,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Jun 16 11:30:18 2009
# Not Valid After : Sun Dec 30 11:30:18 2029

END

CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Open Source Used In cnBR Operations Hub 22.2 16823
# Certificate "GlobalSign Root CA - R3"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\060\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\063\061\023\060\021\006\003\125\004\012\023\012\017
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\012\107\154\157\142\141\154\123\151\147\156
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\060\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040

END
# Trust for Certificate "GlobalSign Root CA - R3"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Serial Number:04:00:00:00:00:01:21:58:53:08:a2
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3
# Not Valid Before: Wed Mar 18 10:00:00 2009
# Not Valid After : Sun Mar 18 10:00:00 2029

cka_class CK_OBJECT_CLASS CKO_NSS_TRUST
cka_token CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_modifiable CK_BBOOL CK_FALSE
cka_label UTF8 "GlobalSign Root CA - R3"
cka_cert_sha1_hash MULTILINE_OCTAL
cka_cert_md5_hash MULTILINE_OCTAL
cka_issuer MULTILINE_OCTAL
cka_serial_number MULTILINE_OCTAL
OPEN SOURCE USED IN cnBR OPERATIONS HUB 22.2  16829

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:53:ec:3b:ee:fb:b2:48:5f
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Wed May 20 08:38:15 2009
# Not Valid After : Tue Dec 31 08:38:15 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\256\305\373\077\310\341\277\304\345\117\003\007\132\232\350\000
\267\367\266\372
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\072\164\172\354\273\243\226\246\302\344\342\310\233\300\303

END

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\13\060\011\106\003\125\004\006\023\105\123\061
\102\060\100\006\03\125\104\107\11\101\165\164\157\162\151
\144\141\14\40\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\11\11\106\040\101\106\062\106\063\106
\106\066\067

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\123\354\073\356\373\262\110\137
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Izenpe.com"
#
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\112\105\116\120\105
\040\123\056\010\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\024\060\022\006\003\125\004\012\014\013\111\112\105\116\120\105
\040\123\056\010\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\137\277\341\313\365\213\327\031
\346\175
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\020\361\106\020\202\003\331\240\003\002\000\102\002\020\000
\260\267\132\026\110\137\277\341\313\365\213\327\031\346\175
\015\006\011\052\206\110\206\367\015\001\100\138\005\000\060\070
\061\103\060\011\006\003\125\004\006\023\002\105\123\061\024\060
\022\000\003\125\004\012\014\013\111\112\105\116\120\105\040\123
\056\101\056\061\023\060\021\006\003\125\004\003\014\012\111\172
\145\156\160\145\056\143\157\155\005\003\061\027\015\006\067\061\062
\061\103\063\016\063\060\070\062\070\132\027\015\063\067\061\062\061
\063\060\070\062\067\062\065\132\060\070\061\013\060\011\006\003
\125\004\006\023\002\105\123\061\024\060\022\006\003\125\004\012
\014\013\111\112\105\116\120\105\040\123\056\010\056\061\102\030
\021\000\003\125\004\003\014\012\111\172\145\156\160\145\056\143
\157\155\006\020\022\020\042\060\015\006\01\105\206\110\206\367\015
\001\001\000\102\005\000\003\020\002\017\000\060\202\002\120\020
\002\001\000\003\113\231\172\312\017\036\254\247\206\350\026\145\152
\261\132\021\033\105\062\161\122\233\137\062\010\133\314\257\245\171
\001\127\211\103\031\123\321\125\161\367\167\276\167\224\363\162\244
\054\104\330\236\222\233\024\072\224\347\044\229\012\120\126\216
\305\330\046\224\341\133\103\034\105\076\332\012\162\335\243\231
\025\332\021\124\207\364\173\156\046\167\211\130\255\326\353\104
\262\101\172\163\156\155\333\172\170\013\351\010\210\022\176\207
\056\146\021\143\154\124\373\074\235\162\300\274\056\377\302\267
\335\015\166\343\072\327\367\264\150\276\242\365\343\201\156\301
```plaintext
\371\276\277\052\205\077\300\100\243\072\131\374\131\113\074\050
\043\333\264\025\165\256\015\210\272\056\163\300\275\130\207\345
\102\262\353\136\356\036\060\042\231\313\067\321\304\041\154\201
\354\276\155\046\346\034\344\102\040\236\107\260\254\203\131\160
\054\065\326\257\066\064\264\315\073\370\062\250\357\343\170\211
\373\315\105\054\333\323\234\270\176\100\034\141\347\076\242\222\054
\113\362\315\372\230\266\051\377\363\362\217\325\103\370\056\240\223
\127\053\333\362\205\003\371\151\067\313\236\170\152\005\264\305\061
\170\021\135\41\172\247\205\341\271\173\074\336\267\036\171\204\316
\237\160\161\131\302\065\056\220\052\061\133\144\105\172\101\444
\056\023\233\064\016\146\173\111\253\144\227\320\016\303\171\235
\162\120\143\246\203\133\006\275\110\155\330\071\203\160\350\065
\360\005\321\252\274\343\333\130\002\352\174\375\202\332\302\133
\122\065\256\230\072\255\272\065\223\043\247\037\110\335\065\106
\230\262\020\150\344\245\061\302\012\130\056\031\201\020\311\120
\165\374\352\132\026\316\021\327\356\357\120\210\055\141\377\077
\102\163\005\224\103\325\216\074\116\001\072\031\245\037\106\116
\167\720\135\354\320\104\021\047\73\376\224\175\204\303\223\255\326
\150\103\110\262\333\335\163\044\347\221\177\124\244\266\200\076
\235\243\074\114\161\242\302\127\304\240\324\140\070\047\316\325\006
\236\242\110\331\351\237\316\202\161\060\622\232\203\337\226\041
\343\131\267\014\332\222\106\360\375\131\132\263\231\310\151\154
\103\046\001\65\145\140\125\211\003\072\165\330\272\112\331\124
\373\356\336\200\330\055\321\070\325\136\055\013\230\175\076\154
\333\374\046\210\307
END

CKA_NSS MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Izenpe.com"
# Issuer: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Serial Number:00:b0:b7:5a:16:48:5:f:bf:e1:19:e6:7d
# Subject: CN=Izenpe.com,O=IZENPE S.A.,C=ES
# Not Valid Before: Thu Dec 13 13:08:28 2007
# Not Valid After : Sun Dec 13 08:27:25 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Izenpe.com"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\057\170\075\045\122\030\247\112\145\071\161\265\054\242\234\105
\025\157\251\031
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
```

246|260|315|205|200|332|134|120|064|243|071|220|057|125|147|163
END

CKA_ISSUER MULTILINE_OCTAL
\060\070\061\013\060\011\006\003\125\004\006\023\002\105\123\061
\0240\060\022\006\003\125\004\012\014\013\111\132\105\116\120\105
\0401\123\056\101\056\061\023\060\021\006\003\125\004\003\014\012
\111\172\145\156\160\145\056\143\157\155
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\000\260\267\132\026\110\137\277\341\313\365\213\327\031
346|175
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Chambers of Commerce Root - 2008"
#
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\103\060\101\013\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\013\060\011\006\003\125\004\006\023\002\105\125
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
\141\144\146\152\145\156\163\040\141\164\040\167\167\056\143\141
\155\145\162\166\151\162\155\141\165\143\157\155\057\141\144\144
\162\145\163\163\050\161\012\060\020\006\003\125\004\005\023\011
\101\107\060\126\064\063\062\070\067\061\103\060\031\106\003\125
\004\012\023\022\101\103\040\013\141\145\145\162\166\151\162\155
\141\140\123\050\161\010\056\061\051\060\047\006\003\125\004\003\023
\040\103\150\141\155\142\145\156\123\143\040\157\146\040\103\157\155
\161\155\145\162\143\145\040\122\157\157\157\164\040\055\040\062\060\060
\070
END

# Trust for Certificate "Chambers of Commerce Root - 2008"
# Issuer: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A92743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:a3:da:42:7e:a4:b1:ae:da
# Subject: CN=Chambers of Commerce Root - 2008,O=AC Camerfirma S.A.,serialNumber=A92743287,L=Madrid
(see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:29:50 2008
# Not Valid After : Sat Jul 31 12:29:50 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Chambers of Commerce Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\170\152\164\254\166\253\024\177\234\152\060\120\272\236\250\176
\376\232\316\074
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\136\200\236\204\132\016\145\013\027\002\363\125\030\052\076\63\27
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\256\061\013\060\011\006\000\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\013\165\162\162\145\156\164\040\141
\144\144\162\145\163\163\040\141\164\040\167\167\167\056\143\141
\155\145\162\146\151\162\155\141\056\143\157\155\057\141\144\144
\162\145\163\163\051\060\022\060\020\006\003\125\004\005\023\011
\101\070\062\067\064\063\062\070\067\061\033\060\031\006\003\125
\004\012\023\022\101\103\040\103\141\155\145\162\160\151\162\155
\141\040\123\056\101\056\061\051\060\047\006\003\125\004\003\023
\040\013\150\141\155\142\145\162\163\040\157\146\040\103\157\155
\155\145\162\143\145\040\122\157\157\164\040\055\040\062\060\060
\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\243\332\102\176\244\261\256\332
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Global Chambersign Root - 2008"
#
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A92743287,L=Madrid (see current address at www.camerfirma.com/address),C=EU
# Serial Number:00:e9:cd:d3:e9:d5:7d:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
   (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
0601030601010060031250040060230021051125
0611030601010060031250040070230721151144162151
144040050163145145040143165162145156164004141
144144162145163163040141164040167167056143141
1551451621461511621551410561431571555057141144144
1621451631630510610220600200060031250040050230111
0101070602067064063066070067061103306003101006003125
004012023022101103040103141155145162146151162155
14114041230560101056061047060604506003125004003023
03610715415171421154040103150141155142145162163
151147156040122115715640005504006206060070
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0601030601010060031250040060230021051125
0611030601010060031250040070230721151144162151
144040050163145145040143165162145156164040141
144144162145163163040141164040167167056143141
1551451621461511621551410561431571555057141144144
1621451631630510610220600200060031250040050230111
0101070602067064063066070067061103306003101006003125
004012023022101103040103141155145162146151162155
14114041230560101056061047060604506003125004003023
03610715415171421154040103150141155142145162163
151147156040122115715640005504006206060070
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
002011000311315323351325175043316
END

CKA_VALUE MULTILINE_OCTAL


```
\244\152\265\132\143\060\321\135\223\146\057\175\005\367
\347\267\113\230\022\146\053\300\331\072\051\130\235\262\120\063\035
\11\22\51\132\246\311\003\325\357\355\364\347\250\156\212\264\127\204
\353\244\077\320\356\252\252\207\133\143\353\223\342\153\250\324
\270\162\170\153\033\355\071\344\135\313\233\252\207\325\117\116
\000\376\331\152\071\170\050\002\001\175\230\350\247\260
\242\144\236\171\137\010\362\025\251\314\346\310\104\353\077\170
\231\136\173\161\076\074\361\230\247\305\030\022\077\346\273\050
\063\102\351\105\012\174\155\362\206\171\057\305\020\311\175\011
\211\174\262\124\166\210\256\336\013\363\143\134\156\333\061\326
\223\256\231\240\357\045\152\163\230\211\133\070\205\023\210\003\6
\277\300\222\224\063\033\343\047\267\213\036\157\102\377\347\351
\067\233\120\035\055\242\371\002\356\313\130\130\072\161\274\150
\343\252\301\257\034\050\037\242\334\043\145\077\201\352\256\231
\323\330\060\317\023\015\117\025\311\204\274\247\110\055\370\060
\043\167\330\106\113\171\155\366\214\355\072\177\140\021\170\364
\351\233\256\325\124\300\164\200\321\013\102\237\301
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Global Chambersign Root - 2008"
# Issuer: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid (see
# current address at www.camerfirma.com/address),C=EU
# Serial Number:00:c9:cd:3c:e9:d5:23:ce
# Subject: CN=Global Chambersign Root - 2008,O=AC Camerfirma S.A.,serialNumber=A82743287,L=Madrid
# (see current address at www.camerfirma.com/address),C=EU
# Not Valid Before: Fri Aug 01 12:31:40 2008
# Not Valid After : Sat Jul 31 12:31:40 2038
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Global Chambersign Root - 2008"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\112\275\356\354\225\015\065\234\211\256\307\122\241\054\133\051
\366\326\252\014
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\236\200\377\170\001\104\056\301\066\275\376\226\220\156\010\363
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\254\061\103\060\011\006\003\125\004\006\023\002\105\125
\061\103\060\101\006\003\125\004\007\023\072\115\141\144\162\151
\144\040\050\163\145\145\040\143\165\162\162\145\156\164\040\141
```
# Certificate "Go Daddy Root Certificate Authority - G2"

# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

cka_class CK_OBJECT_CLASS CKO_CERTIFICATE
cka_token CK_BBOOL CK_TRUE
cka_modifiable CK_BBOOL CK_TRUE
cka_private CK_BBOOL CK_FALSE
cka_label UTF8 "Go Daddy Root Certificate Authority - G2"
cka_certificate_type CK_CERTIFICATE_TYPE CKC_X_509
cka_subject multinline_octal
cka_trust_server_auth CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_email_protection CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
cka_trust_code_signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
cka_trust_step_up_approved CK_BBOOL CK_FALSE
cka_serial_number multinline_octal
cka issuer multinline_octal
\373\113\135\134\140\062\235\442\205\142\103\045\064\000\221\126\047\001\221
\264\073\160\052\077\156\261\350\234\241\000\175\237\324\371\333
\123\155\140\235\277\054\347\130\253\270\131\106\374\316\304\033
\003\074\003\016\010\116\121\151\060\263\320\107\002\003\001\000
\001\123\102\060\100\060\017\006\003\125\035\023\001\001\037\004
\005\060\003\001\001\137\060\016\006\003\125\035\017\100\100\013
\004\004\003\001\016\006\003\035\006\003\125\035\016\004\026\004
\024\072\232\205\007\200\147\050\266\357\366\275\005\101\156\040
\301\122\332\307\373\060\015\006\001\105\220\261\110\206\367\015\001
\001\101\035\000\003\202\001\001\000\231\133\315\171\325\371\227
\131\147\003\141\361\176\073\006\061\165\055\241\040\216\117\115\145
\207\026\367\246\234\274\330\351\057\320\333\132\356\317\164\214
\163\326\040\70\102\332\205\173\370\021\165\270\375\245\261\127\256
\366\327\336\023\313\1\123\020\176\212\106\321\227\372\267\056\053
\021\125\220\220\260\047\200\371\350\237\132\351\067\237\253\344\337
\154\263\205\027\235\075\331\044\117\171\122\106\532\137\004\353
\200\020\253\232\200\025\136\120\203\236\433\020\203\070\014\163\030\355
\162\045\240\252\137\354\263\253\150\022\231\127\306\021\170\022\072
\011\244\275\104\375\006\025\067\301\233\344\062\243\335\070\350
\330\144\363\054\176\024\374\002\352\237\315\377\007\150\027\333
\042\220\207\000\155\172\215\321\124\361\151\134\137\063\312\172\075
\173\012\343\312\177\137\071\345\342\165\272\305\166\030\063\316
\054\360\057\14\255\367\261\347\316\117\250\340\233\112\124\006
\305\177\175\325\010\017\342\034\376\176\027\270\254\136\363\324
\026\262\103\011\014\155\366\247\153\264\231\204\145\312\172\210
\342\342\104\276\134\367\352\034\365
END

# Trust for Certificate "Go Daddy Root Certificate Authority - G2"
# Issuer: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc." ,L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Go Daddy Root Certificate Authority - G2,O="GoDaddy.com, Inc." ,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Go Daddy Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\107\276\253\311\042\352\350\016\170\170\064\142\247\237\105\302
\124\375\346\213
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\200\072\274\042\301\346\373\215\233\073\047\112\062\033\232\001
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\203\061\013\060\001\110\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\060\123\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\016\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\04\141\144\144\171\104\122\157\157\164\140\103\145\162\164
\151\146\151\143\141\164\145\040\101\065\150\157\162\151\164
\171\040\055\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Starfield Root Certificate Authority - G2"
#
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2,O="Starfield Technologies, Inc." ,L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\217\061\013\060\001\110\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\060\123\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\016\032\060\030\006\003\125\004\012
\023\021\107\157\104\141\144\144\171\056\143\157\155\054\040\111
\156\143\056\061\061\060\057\006\003\125\004\003\023\050\107\157
\040\04\141\144\144\171\104\122\157\157\164\140\103\145\162\164
\151\146\151\143\141\164\145\040\101\065\150\157\162\151\164
\171\040\055\040\107\062
END
\312\075\065\056\211\047\142\227\356\036\066\132\202\043\354\156\030\127\211\105\343\320\4133
\325\164\373\153\137\305\211\124\020\122\211\106\121\135\364\270\165
\034\346\177\344\014\256\113\370\125\162\217\002\031\370\027\161
\13\153\53\036\050\000\176\43\035\235\110\276\154\264\364\244\260\363
\144\067\171\222\300\354\106\136\177\341\155\123\114\142\257\315
\037\013\143\273\072\235\373\374\171\000\230\141\164\317\046\202
\100\143\363\262\061\152\031\105\231\132\240\016\165\314\067\373
\213\211\130\111\316\142\177\137\263\137\145\060\370\024\277\67\115
\166\61\132\036\161\360\043\300\350\226\113\263\212\126\360\177\244
\315\275\334\062\061\174\222\137\340\170\021\370\153\252\111\134
\321\123\124\321\142\234\314\133\011\166\265\126\142\341\113\164
\035\226\324\040\324\010\004\131\320\230\016\161\346\336\374\303
\354\037\220\203\361\002\003\001\000\001\243\102\060\100\060\017\0006
\003\125\035\023\000\100\137\377\004\005\060\003\000\100\137\377\060\016
\006\060\033\125\035\019\001\100\137\377\004\000\003\002\000\100\060\003\035
\006\060\123\050\035\016\004\026\004\024\174\014\062\037\247\331\060
\177\304\175\150\243\142\250\241\136\253\007\133\047\060\015\006
\011\052\206\011\020\063\367\015\001\001\030\005\000\003\202\001\001
\000\002\113\112\045\117\003\157\224\231\073\232\037\202\205\071
\324\166\005\224\136\341\010\50\023\155\142\135\011\302\240\250\324
\260\165\070\361\066\152\235\344\237\212\206\046\121\346\054\321
\306\055\156\225\040\112\222\001\135\342\072\212\147\173\061\342\147
\056\214\225\030\046\056\103\235\120\061\136\060\162\265\014\273\267
\342\206\177\042\272\000\243\016\173\122\373\153\273\073\304\323
\171\112\116\151\220\364\147\007\031\310\074\106\172\015\001\117
\305\130\347\155\346\105\060\027\232\043\304\020\340\004\034\367\340
\362\177\324\252\012\127\71\020\035\067\355\224\345\144\131\022\040
\167\070\323\062\076\070\201\165\226\163\372\150\217\261\133\316
\037\305\345\372\234\176\317\176\261\136\100\075\256\374\277\312
\244\277\320\227\005\112\274\352\030\050\002\220\275\124\170\011
\041\161\323\321\175\035\331\026\260\251\141\075\320\012\000\004\02
\374\037\173\313\011\144\015\001\130\002\101\367\175\174\062\365
\230\312\130\216\175\052\356\220\131\163\144\371\066\164\136\045
\241\365\146\005\056\177\071\025\251\052\373\120\213\216\205\151
\364
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Starfield Root Certificate Authority - G2"
# Issuer: CN=Starfield Root Certificate Authority - G2, O="Starfield Technologies, Inc.", L=Scottsdale, ST=Arizona, C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Root Certificate Authority - G2, O="Starfield Technologies, Inc.", L=Scottsdale, ST=Arizona, C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\034\006\174\356\053\014\075\370\125\253\055\222\364\376\071
\324\347\017\016
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\326\071\201\306\122\176\226\151\137\374\374\312\146\355\005\362\226
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\121\176\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\060\123\060\021\006\003\125\004\007\023\012\123\143\157
\164\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\162\146\151\145\154\144\040\124\145\143\150
\156\151\154\157\147\151\145\163\054\040\111\156\143\056\061\062
\060\060\006\003\125\004\003\023\051\123\164\141\162\146\151\145
\154\144\040\122\157\157\164\040\103\145\162\164\151\146\151\143
\141\164\145\040\101\165\164\150\157\162\151\164\171\040\055\040
\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies,
Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\230\061\013\060\006\003\125\004\006\023\002\125\123
\061\020\060\160\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\203\060\021\060\003\125\004\007\023\012\123\143\157
\164\161\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\161\145\145\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\011\111\156\143\056\061\073
\060\071\060\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\040\055\040\017\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\230\061\103\060\001\11\006\003\125\004\006\023\002\125\123
\061\020\060\160\006\003\125\004\010\023\007\101\162\151\172\157
\156\141\061\203\060\021\060\003\125\004\007\023\012\123\143\157
\164\161\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\023\034\123\164\141\161\145\145\144\040\124\145\143\150
\156\157\154\157\147\151\145\163\054\040\011\111\156\143\056\061\073
\060\071\060\003\125\004\003\023\062\123\164\141\162\146\151\145
\154\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\040\103\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\150\157\162\151\164\171\040\055\040\017\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\357\060\202\002\327\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\201\123\060\101\060\003\125\004\006\023\002\125\123\061
\020\060\016\006\003\125\004\010\023\007\101\162\151\172\157
\141\061\023\060\021\060\003\125\004\007\023\012\123\143\157\164
\164\163\144\141\154\145\061\045\060\043\006\003\125\004\012
\034\123\164\141\162\146\151\145\145\144\040\124\145\143\150\156
\157\154\157\147\151\145\163\054\040\111\156\143\056\061\073
\071\006\003\125\004\003\023\062\123\164\141\162\146\151\145\154
\144\040\123\145\162\166\151\143\145\163\040\122\157\157\164
\103\145\162\164\151\146\151\143\141\164\145\040\010\165\164
\157\162\151\164\171\040\055\040\017\062
\060\071\060\061\060\060\060\060\060\060\060\060\013\027\015\063\067\061
# Trust for Certificate "Starfield Services Root Certificate Authority - G2"
# Issuer: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Serial Number: 0 (0x0)
# Subject: CN=Starfield Services Root Certificate Authority - G2,O="Starfield Technologies, Inc.",L=Scottsdale,ST=Arizona,C=US
# Not Valid Before: Tue Sep 01 00:00:00 2009
# Not Valid After : Thu Dec 31 23:59:59 2037
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Starfield Services Root Certificate Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "AffirmTrust Commercial"

# Issuer: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Serial Number:77:77:06:27:26:a9:b1:7c
# Subject: CN=AffirmTrust Commercial,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:06:06 2010
# Not Valid After: Tue Dec 31 14:06:06 2030

```
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Commercial"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\014\061\013\060\001\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\010\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163\164\040\013\157\155\155\145\162\143\151\141\154
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\167\167\006\047\046\125\126\174
END

CKA_VALUE MULTILINE_OCTAL
\060\014\061\013\060\001\006\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\010\146\146\151\162\155\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026\101\146\146\151\162\155\124\162\165\163\164\040\013\157\155\155\145\162\143\151\141\154
END
```

Open Source Used In cnBR Operations Hub 22.2 16853
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Commercial"
# Trust for Certificate "AffirmTrust Networking"
# Issuer: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Serial Number:7c:4f:04:39:1c:d4:99:2d
# Subject: CN=AffirmTrust Networking,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:08:24 2010
# Not Valid After : Tue Dec 31 14:08:24 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Networking"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\051\066\041\002\213\040\355\002\365\146\305\062\321\326\355\220
END
# Certificate "AffirmTrust Premium"

# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number: 6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040

# Certificate Class CK_OBJECT_CLASS CKO_CERTIFICATE
# Token CK_BBOOL CK_TRUE
# Private CK_BBOOL CK_FALSE
# Modifiable CK_BBOOL CK_FALSE
# Label UTF8 "AffirmTrust Premium"

# Certificate Type CK_CERTIFICATE_TYPE CKC_X_509

# Subject Multiline OCTAL
\060\010\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147

# Issuer Multiline OCTAL
\060\010\013\060\011\006\003\125\004\006\023\002\125\123\061
\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155
\124\162\165\163\164\061\037\060\035\006\003\125\004\003\014\026
\101\146\146\151\162\155\124\162\165\163\164\040\116\145\164\167
\157\162\153\151\156\147

# Serial Number Multiline OCTAL
\002\010\174\117\004\071\003\324\231\305

# Trust Server Auth CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Trust Email Protection CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Trust Code Signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Trust Step-Up Approved CK_BBOOL CK_FALSE
\054\302\326\144\066\331\275\110\355\204\037\176\245\042\217\052\270
\102\364\202\267\324\123\220\170\116\055\302\375\201\157\104\327
\073\301\164\226\012\234\000\034\025\153\352\305\356\162\254\273
\277\376\352\252\250\370\334\366\262\171\12\266\147\002\000\300\01
\000\001\123\102\060\100\060\035\006\003\125\035\016\000\026\004
\024\325\301\004\247\246\014\404\233\101\463\65\105\253\246\1\451\220\021
\047\330\105\254\143\060\017\006\003\125\035\023\001\001\137\77\004
\000\006\000\030\001\101\377\060\016\000\003\125\035\017\000\001\137
\000\004\000\003\020\001\006\060\015\060\011\052\206\110\026\036\70\015
\001\010\101\14\050\000\003\020\002\001\000\026\127\11\502\020\142\116
\072\344\254\352\270\03\4\257\062\043\310\263\111\132\121\234\166
\050\102\117\125\212\127\106\207\325\365\122\366\267\104\350\001\104
\127\030\204\322\013\12\3\150\375\000\125\005\141\207\101
\334\265\044\236\074\304\330\310\373\160\236\057\170\226\203\040
\066\336\174\017\151\023\210\245\165\066\230\010\246\306\037\254
\316\343\130\326\267\076\336\272\363\353\064\100\330\242\201\365
\170\077\057\325\245\143\343\124\234\136\004\016\027\255\376\101
\360\035\262\162\372\04\024\020\063\102\350\055\130\367\126\214\142
\077\272\102\260\023\041\141\341\176\056\145\306\134\123\117\000\262
\170\176\241\015\231\050\215\270\035\216\204\230\342\260\375\140\320
\060\024\213\130\004\142\251\030\435\066\336\172\227\355\016\070
\136\222\057\223\160\245\251\234\157\247\175\023\035\176\3\060\10
\110\261\136\147\353\121\100\045\351\346\045\153\122\051\221\234
\322\071\163\101\127\336\231\006\264\133\325\052\000\034\130\020
\025\207\034\12\000\012\024\320\301\101\312\373\124\065\041\175
\020\070\362\251\124\221\031\065\223\224\155\152\072\305\262\230
\273\211\026\023\355\023\311\107\072\247\172\270\041\360\107\106
\372\374\067\057\345\12\020\436\333\376\004\331\241\150\240\057
\044\342\011\225\006\325\225\312\341\044\226\355\174\366\223\005
\273\355\163\351\055\321\165\071\132\374\044\333\300\116\137\103
\217\326\3200\047\127\225\156\011\102\211\127\061\124\324\365\112
\123\000\322\060\037\140\006\356\033\043\376\201\140\043\032\017
\142\025\245\134\031\064\200\157\263\254\032\343\237\360\173\110
\255\325\001\133\114\172\266\251\162\223\352\055\146\265\262\207\344
\075\074\262\357\114\124\352\035\007\277\253\065\232\125\206\274
\030\246\265\250\136\262\203\154\153\110\032\237\334\361\303
\151\153\271\341\115\150\113\364\361\125\201\166\011\127\172\175\172\027
\241\125\226\102\231\106\111\133\140\021\125\005\060\176\346\216
\106\321\235\024\332\070\273\044\005\226\214\304\044\265\003\131
\024\007\262\100\370\243\326\101\206\274\004\320\153\226\310\005
\200\064\375\277\357\006\243\335\130\050\205\075\076\217\376\236
\051\340\266\270\011\150\031\034\030\103
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "AffirmTrust Premium"
# Issuer: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Serial Number: 6d:8c:14:46:b1:a6:0a:ee
# Subject: CN=AffirmTrust Premium,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:10:36 2010
# Not Valid After: Mon Dec 31 14:10:36 2040
# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "AffirmTrust Premium"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\330\246\063\054\340\003\157\261\205\366\143\117\175\152\006\145\046\062\050\047
END
# CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\135\016\110\266\254\050\060\116\012\274\371\070\026\207\127
END
# CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\001\100\003\125\004\006\023\002\125\123\061\024\060\022\006\003\125\004\012\014\013\101\146\146\151\162\155\124\162\165\163\164\061\034\060\003\125\004\003\014\023\101\146\146\151\162\155\124\162\165\163\164\040\120\162\145\155\151\165\155
END
# CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\155\214\024\106\261\124\060\012\356
END
# CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "AffirmTrust Premium ECC"
#
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number: 74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After: Mon Dec 31 14:20:24 2040
# CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# Trust for Certificate "AffirmTrust Premium ECC"
# Issuer: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Serial Number: 74:97:25:8a:c7:3f:7a:54
# Subject: CN=AffirmTrust Premium ECC,O=AffirmTrust,C=US
# Not Valid Before: Fri Jan 29 14:20:24 2010
# Not Valid After: Mon Dec 31 14:20:24 2040

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AffirmTrust Premium ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid After: Mon Dec 31 12:07:37 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\176\061\13\060\11\060\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\176\061\13\060\011\060\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\004\003\002\002\002\002\003\004

END

CKA_VALUE MULTILINE_OCTAL
\060\202\003\273\060\202\002\243\240\003\002\001\002\002\003\004
\104\300\060\015\006\011\005\206\010\026\367\015\001\001\005\005
\000\060\176\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\101\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\003\023\036\103
\145\162\164\151\155\040\103\145\162\164\151\146\151\143\141\164\151

END

Open Source Used In cnBR Operations Hub 22.2 16864
END
CKA_NSS MOZILLA CA POLICY CK BBOOL CK TRUE
CKA_NSS SERVER DISTRUST AFTER CK BBOOL CK FALSE
CKA_NSS EMAIL DISTRUST AFTER CK BBOOL CK FALSE

# Trust for Certificate "Certum Trusted Network CA"
# Issuer: CN=Certum Trusted Network CA, OU=Certum Certification Authority, O=Unizeto Technologies S.A., C=PL
# Serial Number: 279744 (0x444c0)
# Subject: CN=Certum Trusted Network CA, OU=Certum Certification Authority, O=Unizeto Technologies S.A., C=PL
# Not Valid After: Mon Dec 31 12:07:37 2029
CKA_CLASS CK OBJECT_CLASS CKO NSS TRUST
CKA_TOKEN CK BBOOL CK TRUE
CKA_PRIVATE CK BBOOL CK FALSE
CKA_MODIFIABLE CK BBOOL CK FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA"

CKA CERT SHA1_HASH MULTILINE OCTAL
\007\340\062\340\040\267\054\077\031\057\006\050\242\131\072\031
\247\017\006

END
CKA CERT MD5 HASH MULTILINE OCTAL
\325\351\201\100\305\030\151\137\106\054\211\165\142\017\252\170

END
CKA_ISSUER MULTILINE OCTAL
\060\176\061\103\060\011\006\003\125\004\006\023\002\120\114\061
\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164
\157\040\124\145\143\150\156\157\154\157\147\151\145\145\163\040\123
\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145
\162\154\165\155\040\103\145\156\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\061\042\060\040
\006\003\125\004\003\023\031\103\145\162\164\165\155\040\124\162
\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101

END
CKA SERIAL NUMBER MULTILINE OCTAL
\002\003\004\104\300

END
CKA TRUST SERVER AUTH CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST EMAIL PROTECTION CK TRUST CKT NSS TRUSTED DELEGATOR
CKA TRUST CODE SIGNING CK TRUST CKT NSS MUST VERIFY TRUST
# Certificate "TWCA Root Certification Authority"

# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Subject: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After: Tue Dec 31 15:59:59 2030

END


# Trust for Certificate "TWCA Root Certification Authority"
# Issuer: CN=TWCA Root Certification Authority,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 1 (0x1)
# Not Valid After : Tue Dec 31 15:59:59 2030

CKA_CLASS  CK_OBJECT_CLASS  CKO_NSS_TRUST
CKA_TOKEN  CK_BBOOL  CK_TRUE
CKA_PRIVATE  CK_BBOOL  CK_FALSE
CKA_MODIFIABLE  CK_BBOOL  CK_FALSE
CKA_LABEL  UTF8 "TWCA Root Certification Authority"
CKA_CERT_SHA1_HASH  MULTILINE_OCTAL

CKA_CERT_MD5_HASH  MULTILINE_OCTAL

CKA_ISSUER  MULTILINE_OCTAL

CKA_SERIAL_NUMBER  MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION  CK_TRUST  CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING  CK_TRUST  CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED  CK_BBOOL  CK_FALSE

# Certificate "Explicitly Distrust DigiNotar Root CA"
#
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
Not Valid After: Mon Mar 31 18:19:22 2025
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
0601370601193600011100600312500040060230002116114061
02206002000600031250040120230011104151114711511161157
1641141162061032060003060003125004003023021104151
147115111611571641411620400122157164040103101061
0400600360060110522060110206367015001011001026021
15115614615710014415114711511561517164141162056156
\154

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
0601370601193600011100600312500040060230002116114061
02206002000600031250040120230011104151114711511161157
1641141162061032060003060003125004003023021104151
147115111611571641411620400122157164040103101061
04006003600600110522060110206367015001011001026021
15115614615710014415114711511561517164141162056156
\154

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020200017377377377377377377377377377377377377

\377377

END

CKA_VALUE MULTILINE_OCTAL
0602020005212060202003162240003002001002002020017
\3773773773773773773773773773773773773773777060
0150006011052206011020636701500100100500050000600137
0601130600111006003125005400602302011661140610022060
02000003125004012023011104151114711511161157164141
162061032060030060031250040030230211041511471151
11611571641416204001221571640401031010610040060
036000011052206011020636701500101001026021151156
1461571001441511471151156157164141162056156154060
036027015600607060606706067060670606706067060670601071063067132
0270150620560603630610107006107062062132060
137061013006011006003125004006023002116114061022
0600200060003125004012023001110415114711511161157164
Open Source Used In cnBR Operations Hub 22.2 16872

# Trust for Certificate "Explicitly Distrust DigiNotar Root CA"
# Issuer: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Serial Number:0f:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff:ff
# Subject: E=info@diginotar.nl,CN=DigiNotar Root CA,O=DigiNotar,C=NL
# Not Valid Before: Fri Jul 27 17:19:37 2007
# Not Valid After: Mon Mar 31 18:19:22 2025
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"

END

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrust DigiNotar Root CA"

END
# Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"

# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

END
# Trust for Certificate "Explicitly Distrusted DigiNotar PKIoverheid G2"
# Issuer: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Serial Number: 268435455 (0xffffffff)
# Subject: CN=DigiNotar PKIoverheid CA Organisatie - G2,O=DigiNotar B.V.,C=NL
# Not Valid Before: Wed May 12 08:51:39 2010
# Not Valid After : Mon Mar 23 09:50:05 2020
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Explicitly Distrusted DigiNotar PKIoverheid G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\016\111\227\235\326\325\343\033\017\352\217\000\11\16\23\20\23\224
\13\10\20\02\07\11\10\13\30\23\10\23\51\77\11\35\01\33\01\25\01\15
\10\15\71\23\14\50\02\35\43\00\33\35\35\15\42\54\03\026
\31\0\35\12\62\23\24\43\04\30\43\22\05\65\34\0\17\34\10\44\07\053
\12\01\51\24\43\34\14\2\35\0\2\0\0\1\51\21\54\31\00\00\07\22\61\166
\23\3\35\17\03\00\24\41\16\67\20\0\62\15\46\04\05\02\0\71\14\62\56\135
\34\32\27\12\7\2\05\4\15\0\37\36\2\23\2\20\0\0\3\0\1\36\0\25\26\3\244
\31\41\11\21\30\0\64\35\10\67\31\11\17\30\1\30\2\0\4\174\15\17\14\04\25
\10\57\35\41\11\13\0\0\4\3\11\0\5\3\22\3\26\1\7\4\17\17\0\1\2\2\2\2\2
\32\61\12\30\5\2\13\12\2\5\2\32\4\76\35\2\3\0\0\3\0\7\0\4\3\0\3\4\4235
\17\2\17\5\16\3\10\1\22\2\3\1\4\2\0\3\4\15\6\3\3\5\0\0\5\1\7\3\0\4\2\45
\30\6\1\11\5\1\5\5\2\0\3\6\2\1\0\3\4\3\0\7\3\6\3\3\3\4\1\0\2\2\3\1\52\266327
\04\1\1\0\0\6\1\6\7\3\6\2\3\5\0\3\0\1\1\7\3\0\5\1\6\0\3\1\2\3\6\3\5\1\3\36\267053
\21\3\36\4\27\1\7\6\0\5\0\3\7\0\1\5\1\0\3\1\1\2\0\5\1\3\4\25\6\3\2\3\5\0\0\1\377
\32\0\1\3\4\0\1\6\2\6\5\2\5\0\1\7\6\3\6\0\3\5\1\0\5\2\2\5\2\7\2\1\0\2\5\6\3\4\5\265321
\1\3\0\2\4\5\2\5\7\2\3\4\1\6\1\2\4\7\0\5\0\1\0\2\2\0\2\0\3\1\5\0\6\7\2\0\2\0\5\2\7\2\374
\0\1\1\0\1\0\1\5\6\2\1\4\1\7\0\0\7\3\3\0\0\6\3\0\0\2\0\0\0\7\7\0\1\0\4\2\5\0\0\0\3\53
\33\7\1\2\5\1\2\6\0\1\0\2\5\5\0\5\4\2\0\5\5\5\1\3\5\2\6\1\0\3\4\1\2\5\6\2\5\1\26\30\305
\2\4\4\3\6\3\1\16\2\7\2\6\2\7\2\3\0\1\7\3\2\0\2\271
END

# Open Source Used In cnBR Operations Hub 22.2 18876
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\000\017\377\377\377
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Security Communication RootCA2"
#
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Subject: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\135\061\013\060\011\006\003\125\004\006\023\002\112\120\061
\045\060\043\006\003\125\004\012\023\034\123\105\103\117\115\040
\124\162\165\163\164\040\123\171\163\164\145\155\163\040\103\117
\056\054\114\124\104\056\061\047\060\045\006\003\125\004\013\023
\036\123\145\143\165\162\151\164\171\040\103\157\155\155\165\156
\151\143\141\164\151\157\156\040\122\157\157\164\103\101\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\167\060\020\022\137\240\003\002\001\002\002\001\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060

Open Source Used In cnBR Operations Hub 22.2 16877
# Trust for Certificate "Security Communication RootCA2"
# Issuer: OU=Security Communication RootCA2,O="SECOM Trust Systems CO.,LTD.",C=JP
# Serial Number: 0 (0x0)
# Not Valid Before: Fri May 29 05:00:39 2009
# Not Valid After : Tue May 29 05:00:39 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Security Communication RootCA2"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# #
Open Source Used In cnBR Operations Hub 22.2 16879
# Certificate "EC-ACC"

# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After: Tue Jan 07 22:59:59 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\010\363\013\060\001\n\006\000\03\125\004\006\023\002\105\123
\061\013\060\071\006\000\03\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\140\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\060\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\161\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\035\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\141\156\145\163\061\107\060\150\006\03\125\004\003\023\006
\105\103\055\101\103\103

END

CKA_SUBJECT MULTILINE_OCTAL
\060\010\363\013\060\001\n\006\000\03\125\004\006\023\002\105\123
\061\013\060\071\006\000\03\125\004\012\023\062\101\147\145\156\143
\151\141\040\103\141\164\141\154\141\156\141\140\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\121\055\060\070\060\061\061\067\060\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\006\003\125\004\013
\023\054\126\145\147\145\165\040\150\164\161\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
\060\063\006\003\125\004\013\023\035\112\145\162\141\162\161\165
\151\141\040\105\156\164\151\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\141\156\145\163\061\107\060\150\006\03\125\004\003\023\006
\105\103\055\101\103\103
Open Source Used In cnBR Operations Hub 22.2

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00202035605307533532404133602425014225404363335304001060
015000111111052206111102063670115001101100050000000600201
036306101306001100600312500406023002105123061073
06007100600312500401202030621011471451561431511141
004001031411614114154141156141040144145040103145162
1664115114611143114315111570400509116111106040121
05500060700606106706606551110510605006046006
00312500401032020371123145162166145151163040120165
1421541511431163040144145040103145162164151146151
1431414131511570610650060300603125004013023054
126145147145165040150164164160163072057057167167
16705614314116414314516216405615616405716616145
1621411621621451540400501430510600630610650606063
006000312500401302305411214516214116216116511511
0400103156164151164141164163040144145040103145162
16411411461114311431511157040103141164141154141
156145163061017060015006003125004030230606105103
0551011031030603602701106063060606106067062063
06006006006001320270150630610600606706206205
07100650711132060201136306111060001106003125004006
0230021051123061073060710106003125004012023062101
1471451561431511410401031411641411541411561411040
14414504013014516216415114611411431143151157040
05011111106040120155060070106061061067066055111
05106110500600460060031250040130230371123145162166
145151163904012011651421541511431163040144145040103
145162146114114311411431141157061065060630006
0031250040130230541126145147145165040150164164160
1630720570571671670561431164143145162164056
156145164057166162141162162145154040050143051
0600630610650600630060031250040130230541112415162
1411461611651511410401051561641511641641630304
14414504013014516216415114611411431143151157040
103141164141154141156145163061017060015006003125
0040030230066105103055101103103060202001042060015


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\234\235\245\140\225\257\222\217\237\032\253\010\156\363\356\133
\371\210\075\176\270\157\156\003\344\010

END
CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
# For Server Distrust After: Sat Dec 28 00:00:00 2019
CKA_NSS_SERVER_DISTRUST_AFTER MULTILINE_OCTAL
\061\071\061\062\062\070\060\060\060\060\060\060\060\060\132
END
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\060\060\060\132
END

# Trust for Certificate "EC-ACC"
# Issuer: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Subject: CN=EC-ACC,OU=Jerarquia Entitats de Certificacio Catalanes,OU=Vegeu https://www.catcert.net/verarrel (c)03,OU=Serveis Publics de Certificacio,O=Agencia Catalana de Certificacio (NIF Q-0801176-I),C=ES
# Not Valid Before: Tue Jan 07 23:00:00 2003
# Not Valid After : Tue Jan 07 22:59:59 2031
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "EC-ACC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\050\220\072\143\133\122\200\372\346\167\114\013\155\247\326\272
\246\112\362\350
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\353\365\235\051\015\141\137\110\203\037\174\302\272\155\343\025\011
END
CKA_ISSUER_MULTILINE_OCTAL
\060\201\363\061\013\060\001\110\006\003\125\004\000\060\023\002\015\0123
\061\073\060\001\106\003\125\004\012\023\062\101\147\145\156\143
\151\141\040\010\131\141\164\141\151\141\156\141\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\050\116\111\106
\040\012\015\056\006\070\060\060\061\061\006\066\055\111\051\061\050\060
\046\006\003\125\004\013\023\037\123\145\162\166\145\151\163\040
\120\165\142\154\151\143\163\040\144\145\040\103\145\162\164\151
\146\151\143\141\143\151\157\061\065\060\063\000\063\125\004\013
\023\054\126\145\147\145\165\040\150\164\161\160\163\072\057\057
\167\167\167\056\143\141\164\143\145\162\164\056\156\145\164\057
\166\145\162\141\162\162\145\154\040\050\143\051\060\063\061\065
```
\060\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\151\141\040\015\156\164\151\164\141\164\163\040\144\145\040\103
\145\162\164\151\146\151\143\141\143\151\157\040\103\141\164\141
\154\141\156\145\163\061\017\060\015\006\003\125\004\003\023\006
\105\103\055\101\103\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\356\053\075\353\324\041\336\024\250\142\254\004\363\335
\304
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Hellenic Academic and Research Institutions RootCA 2011"
#
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ISSUER MULTILINE_OCTAL
\060\006\003\125\004\013\023\054\112\145\162\141\162\161\165
\061\140\006\010\102\006\003\125\004\012\023\073\110\145\154\151\145
\156\151\143\040\011\143\141\144\145\155\151\143\040\141\156\144
\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\006\076\006\003\125\004\003\023
\067\110\145\154\154\155\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\151\157\156\163\040\122\157\157
\164\103\010\040\062\060\061\061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\225\061\013\060\001\11\006\003\125\004\006\023\002\107\122

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```
\170\363\101\171\143\244\121\106\034\371\053\047\022\007\330\352
\275\030\142\230\060\131\067\175\276\356\363\040\121\102\132\203
\357\223\272\151\025\356\114\232\357\231\071\020\241\267\164\140\056
\213\324\305\013\173\057\360\310\012\332\075\171\012\232\223\034
\245\050\162\163\221\013\023\322\247\321\115\205\204\271\251\164\121
\024\100\307\334\336\254\101\144\154\264\031\233\002\143\155\044
\144\217\104\262\045\352\316\135\164\014\143\062\134\215\207\345
\002\003\000\100\000\012\243\201\111\060\201\206\060\017\006\003\125
\035\023\000\100\137\000\040\056\003\001\137\160\006\013\006\003
\125\035\017\004\004\000\002\000\010\006\060\035\006\003\125\035\016
\004\026\004\024\246\221\102\375\231\141\112\043\236\010\244\051
\345\330\023\004\043\356\101\045\060\107\006\003\125\035\036\004
\100\060\076\240\074\060\005\202\003\105\147\162\060\005\202\003
\056\145\165\060\006\020\004\056\145\144\165\060\006\202\004\056
\157\162\147\060\005\201\003\056\147\62\060\005\201\003\056\145
\165\060\006\201\004\056\145\144\165\060\006\201\004\056\157\162
\147\060\015\006\011\052\206\110\206\367\015\001\001\005\005\000
\003\202\001\010\000\037\357\171\110\341\173\156\077\262\214\206
\067\102\112\116\034\067\036\215\146\272\044\201\311\117\022\017
\041\130\000\132\227\026\045\155\135\323\042\051\250\154\242\015\251
\353\307\061\133\323\107\230\314\303\323\064\177\253\016\310\116
\034\341\372\044\334\315\015\276\277\044\376\154\347\153\302\015
\310\006\236\116\215\141\050\246\152\375\345\366\142\352\030\007
\116\240\123\235\262\072\234\353\245\234\221\026\266\115\202\340
\014\005\110\251\154\365\314\370\313\235\111\264\360\002\245\375
\160\003\355\212\041\245\256\023\206\111\113\030\063\163\276\207\073
\164\213\027\105\046\114\042\221\210\203\376\147\175\315\115\143\147
\372\163\030\022\226\170\006\215\261\147\355\216\077\276\237\117
\002\365\260\111\057\363\114\207\337\052\313\225\174\001\131\425
\066\172\277\242\163\172\367\217\301\265\232\241\024\262\217\063
\237\015\357\042\333\146\173\204\275\105\027\006\075\043\312\271
\167\064\217\312\352\317\077\061\076\343\210\343\200\111\305\310
\227\265\235\232\231\115\260\074\370\112\000\233\144\335\237\071
\113\321\047\327\270
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for Certificate "Hellenic Academic and Research Institutions RootCA 2011"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research
# Institutions Cert. Authority,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2011,O=Hellenic Academic and Research
# Institutions Cert. Authority,C=GR
# Not Valid Before: Tue Dec 06 13:49:52 2011
# Not Valid After : Mon Dec 01 13:49:52 2031
```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\376\105\145\233\171\003\133\230\241\141\265\121\056\254\332\130
\011\110\042\115
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\163\237\114\113\163\133\171\351\372\272\034\357\156\313\325\311
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\225\061\013\060\011\006\003\125\004\006\023\002\107\122
\061\104\060\102\060\003\125\004\123\073\110\145\154\145
\156\151\143\040\143\144\145\155\151\143\040\141\156\144
\140\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164
\165\164\151\157\156\163\040\103\145\162\164\056\040\101\165\164
\150\157\162\151\164\171\061\100\060\076\006\003\125\004\003\023
\067\110\145\154\154\156\151\143\040\101\143\141\144\145\155
\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150\040
\111\156\163\164\151\164\165\164\151\157\156\163\040\122\157\157
\164\103\101\040\062\060\061\1061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "MITM subCA 1 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.".L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000005 (0x6b49d205)
# Not Before: Apr 7 15:37:15 2011 GMT
# Not After : Apr 4 15:37:15 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 1 issued by Trustwave"
CKA_ISSUER MULTILINE_OCTAL
\060\201\130\013\060\011\006\003\125\004\006\023\002\123\123
\061\021\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\120\060\016\006\003\125\004\007\023\007\103\150

Open Source Used In cnBR Operations Hub 22.2 16887
# Explicitly Distrust "MITM subCA 2 issued by Trustwave", Bug 724929
# Issuer: E=ca@trustwave.com,CN="Trustwave Organization Issuing CA, Level 2",O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US
# Serial Number: 1800000006 (0x6b49d206)
# Not Before: Apr 18 21:09:30 2011 GMT
# Not After: Apr 15 21:09:30 2021 GMT
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "MITM subCA 2 issued by Trustwave"

CKA_ISSUER MULTILINE_OCTAL
\060\020\125\031\061\013\060\011\006\003\125\004\006\023\020\125\123
\061\020\123\031\061\011\006\003\125\004\000\023\020\125\123
\157\151\163\061\020\060\016\006\003\125\004\000\070\23\020\071\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\161\065\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\060\061\006\003\125\004
\003\020\125\025\124\162\165\163\164\167\141\166\145\040\117\162\147
\141\156\151\172\141\164\151\157\156\040\111\163\163\165\151\156
\147\040\103\101\054\040\114\145\166\145\154\040\062\061\037\060
\035\006\011\052\206\110\206\367\015\001\011\001\026\020\143\141
\100\164\162\165\163\164\167\141\166\145\056\143\157\155
END

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\153\113\322\005
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Actalis Authentication Root CA"

# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number: 57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After: Sun Sep 22 11:22:02 2030

CKA_CLASS CKA_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CKBBOOL CK_TRUE
CKA_PRIVATE CKBBOOL CK_FALSE
CKA_MODIFIABLE CKBBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERTIFICATE_TYPE CKBCERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\000\003\125\004\007\014\005\115\15\154\141\156\061
\043\060\041\006\000\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\065\070\065\062
\060\071\066\067\061\047\060\045\060\003\125\004\003\140\036\101
\143\164\141\154\151\163\040\101\165\161\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\000\003\125\004\007\014\005\115\15\154\141\156\061
\043\060\041\006\000\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\065\070\065\062
\060\071\066\067\061\047\060\045\060\003\125\004\003\140\036\101
\143\164\141\154\151\163\040\101\165\161\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\157\164\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\012\021\127\102\043\33\314

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\273\060\202\003\243\240\003\002\001\002\002\010\017
\012\021\122\102\034\343\314\060\015\006\011\052\206\110\206\367
\015\001\001\13\005\000\006\153\061\013\060\011\006\003\125\004
\006\023\002\111\124\061\016\060\014\006\003\125\004\007\014\005
\115\15\154\141\156\014\036\060\014\006\003\125\004\012\014\032
\101\143\164\141\154\151\163\040\123\056\160\056\101\056\057\060
\063\065\070\065\062\060\071\066\067\061\047\060\045\006\003
\125\004\003\014\036\101\143\164\141\154\151\163\040\101\165\164

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Open Source Used In cnBR Operations Hub 22.2 16889
\043\004\030\060\026\200\022\122\233\302\210\072\231\023\277\170\146\335
\211\133\173\070\160\224\311\002\002\026\066\320\060\016\006\003\125
\035\017\001\001\037\770\004\004\003\020\001\006\060\015\006\001\11\052
\206\110\206\367\015\001\010\013\005\000\000\032\020\002\000\010\000\13
\173\162\220\270\300\140\246\111\114\210\130\346\035\210\367\024\144
\11\024\363\301\030\201\161\170\203\065\337\065\035\324\355\006\061
\310\201\076\152\323\355\073\032\062\356\220\075\021\322\056\364
\216\303\143\056\043\146\260\147\276\157\266\300\023\071\11\040\252
\12\206\045\223\16\322\364\275\255\016\207\211\122\161\115\02
\026\074\031\035\203\370\232\051\145\276\345\006\161
\317\206\323\145\020\031\030\321\227\002\261\053\162\102\150\254
\240\275\116\132\323\030\277\153\230\201\132\375\232\276\136\025
\110\315\021\010\25\271\130\051\113\264\350\210\367\076\066\256\267
\142\375\036\142\333\61\160\170\020\034\110\133\332\274\244\070\272
\147\355\125\076\136\127\337\324\003\100\114\020\124\322\117\143
\247\011\102\011\024\374\000\251\302\020\016\122\170\056\300\100\331
\021\173\111\035\217\022\023\300\032\333\050\010\461\013\016\031\030
\163\042\155\223\225\375\071\175\273\052\343\366\202\343\054\227
\137\116\037\221\224\372\376\054\242\333\010\066\032\270\115\262\070
\117\233\372\035\110\140\171\046\342\363\375\251\320\232\350\160
\217\11\117\232\026\345\275\012\016\333\355\363\215\277\353\343\244
\175\13\307\225\161\153\353\322\243\174\030\302\370\164\222\004\033
\206\254\244\042\123\100\266\254\376\114\166\317\373\224\062\300
\065\373\166\077\156\345\220\156\240\246\064\242\270\054\276\321
\053\205\373\247\150\301\272\001\053\261\154\164\035\270\163\225
\347\356\267\307\045\365\000\114\000\262\176\266\013\213\034\363
\300\120\236\045\271\134\001\033\606\661\463\377\067\245\321\273\124
\144\054\311\047\265\113\222\176\145\377\323\055\341\127\11\162\274
\177\244\101\041\220\101\167\246\071\037\352\236\343\237\320\146
\157\005\354\252\166\176\277\153\026\240\353\265\307\374\222\124
\057\053\021\047\045\067\170\114\121\152\260\363\341\130\135\024
\361\152\110\025\377\302\007\266\261\125\172\161\134\120\106\263
\075\277\001\123\017\262\131\124\017\076\064\173\170\155\126\223
\056\163\352\146\050\170\315\035\024\277\240\121\057\056\270\056
\216\362\024\212\314\351\265\174\373\154\235\014\245\341\1226
END

CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_After CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_After CK_BBOOL CK_FALSE

# Trust for "Actalis Authentication Root CA"
# Issuer: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Serial Number: 57:0a:11:97:42:c4:e3:cc
# Subject: CN=Actalis Authentication Root CA,O=Actalis S.p.A./03358520967,L=Milan,C=IT
# Not Valid Before: Thu Sep 22 11:22:02 2011
# Not Valid After : Sun Sep 22 11:22:02 2030

Open Source Used In cnBR Operations Hub 22.2 16891
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Actalis Authentication Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\363\163\263\207\006\132\050\204\212\362\363\112\316\031\053\335
\307\216\234\254
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\301\015\117\007\243\033\303\376\126\075\004\274\021\366\246
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\124\061
\016\060\014\006\003\125\004\007\014\005\115\151\154\141\156\061
\043\060\041\006\003\125\004\012\014\032\101\143\164\141\154\151
\163\040\123\056\160\056\101\056\057\060\063\065\076\065\062
\060\071\066\067\061\047\060\045\006\003\125\004\003\014\036\101
\143\164\141\154\151\163\040\101\165\164\150\145\156\164\151\143
\141\164\151\157\156\040\122\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\127\102\120\227\102\304\343\314
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Buypass Class 2 Root CA"
#
# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After: Fri Oct 26 08:38:03 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"

Open Source Used In cnBR Operations Hub 22.2 16892
\035060\033060\033012\030040\012\014024\0102\165\171\160\141\163\163\0401040101123055071070063061066063062067061040\060036060031125004003014027102165171160141\163163\040103154141163163040062040122157\1571640401031101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\06011601160116010111100600311250040060230021116117011
\03506003000003112500401210424102165171160141\163163\16304011123055071070063061066063062067061040\060036060031125004003014027102165171160141\163163\040103154141163163040062040122157\1571640401031106
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002

END

CKA_VALUE MULTILINE_OCTAL
\060202020051131060202003110124000300201002002001002
\060015006011052206110206367015001001101300500060
\116061011306011060600311250040060230021116117011
\03506003000003112500401210424102165171160141\163163\040101123055071070063061066063062067061040060
\0360060031125004003014027102165171160141\163163\0431541411163163040062040122157157164040103101060
\03602710150610606010606206606070063070060031132
\027015064060610606206606070063070060031132060
\116061011306011060600311250040060230021116117011
\03506003000003112500401210424102165171160141\163163\040101123055071070063061066063062067061040060
\0360060031125004003014027102165171160141\163163\0431541411163163040062040122157157164040103101060
\0200202042060015006011052206110206367015001001101300500060
\00500000320200201700000602002021200122020202001000
\32703711363667301007324167373103041364364365151344
\1356020200113324320603734441131015272347165303122353
\352023414110251102733050731321245265260334226235352
\303014020220206200501632342162063377113144360014052
\067111126534953170141743563611112973163060145363325
\05720326661763334374365236253403713323613235222164
\121234403422204254133200351265364061207243121734307
\17624115721612316732422730112506322207603000571165
\3242552206111131225257124006154330060623215133377
\3341040631131300044272201116117122010421201500440224
\137270263201136105110114124310113130430660325301361
\06212000201161773642062233542043232162741132771134
\0011160070573340242122240122443352163373013121350
\023007030372016361053321124025175074341367264031
\1021471421136167340242125354266331151027325072257
# Trust for "Buypass Class 2 Root CA"

# Issuer: CN=Buypass Class 2 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Not Valid Before: Tue Oct 26 08:38:03 2010
# Not Valid After : Fri Oct 26 08:38:03 2040

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 2 Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\111\012\165\164\336\207\012\107\376\130\356\366\307\153\353\306
\013\022\001\231
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\106\247\322\376\105\373\114\132\250\131\122\023\170\104\233\051
END

CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\011\006\003\125\004\006\023\002\116\117\061
\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163
\163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163
\040\103\154\141\163\163\040\062\040\122\157\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\002
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Buypass Class 3 Root CA"
#
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Subject: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After : Fri Oct 26 08:28:58 2040

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Buypass Class 3 Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\116\061\013\030\060\011\010\006\003\125\004\006\023\002\116\117\061\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163 \163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040 
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\164\004\010\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101 END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\116\061\013\060\001\111\006\003\125\004\006\023\002\116\117\061 \035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163 \163\040\101\123\055\071\070\063\061\066\063\063\062\067\061\040 
\060\036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\164\004\010\103\154\141\163\163\040\063\040\122\157\157\164\040\103\101 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\000\001\002 END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\131\106\020\020\003\101\124\003\002\001\002\002\001\002 \060\015\006\011\052\206\110\206\367\015\001\010\13\005\000\0060 \116\061\101\13\060\011\006\003\125\004\006\023\002\116\117\061\035 \060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163 \040\010\112\13\055\071\070\063\061\066\063\063\062\067\061\040 \036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\164 \103\154\141\163\163\040\063\040\122\157\157\164\040\103\101 \103\154\141\163\163\040\063\040\122\157\157\164\040\103\100 \036\027\015\061\060\060\062\066\060\070\062\070\065\070\132 \027\105\064\060\061\060\062\066\060\070\062\070\065\070\132\060 \116\061\101\13\060\011\006\003\125\004\006\023\002\116\117\061\035 \060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163 \104\010\112\13\055\071\070\063\061\066\063\063\062\067\061\040 \036\006\003\125\004\003\014\027\102\165\171\160\141\163\163\164 \103\154\141\163\163\040\063\040\122\157\157\164\040\103\101 

Open Source Used In cnBR Operations Hub 22.2 16896
# Trust for "Buypass Class 3 Root CA"
# Issuer: CN=Buypass Class 3 Root CA,O=Buypass AS-983163327,C=NO
# Serial Number: 2 (0x2)
# Not Valid Before: Tue Oct 26 08:28:58 2010
# Not Valid After: Fri Oct 26 08:28:58 2040

cka_nss.mozilla_ca_policy ck_bbool ck_true
cka_nss.server_distrust_after ck_bbool ck_false
cka_nss.email_distrust_after ck_bbool ck_false
# Certificate "T-TeleSec GlobalRoot Class 3"

# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\116\060\013\060\011\006\003\125\004\006\023\002\116\117\061\035\060\033\006\003\125\004\012\014\024\102\165\171\160\141\163\163\040\103\154\141\163\163\040\063\040\122\157\157\164\040\0103\101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\011\006\003\125\004\006\023\002\104\105
\164\035\236\271\264\345\140\235\057\126\321\340\353\136\133\114
\022\160\014\154\040\040\253\021\330\364\031\366\322\234\122\067
\347\372\266\302\061\107\311\123\324\242\231\125\350\307\032\365\135\137
\372\007\270\174\015\037\362\203\020\364\030\023\001\001\1377\004\005\060
\003\001\011\1377\060\016\060\003\125\035\023\001\001\1377\004\005\060
\003\001\011\1377\060\016\060\003\125\035\023\001\001\1377\004\005\060
\003\002\001\016\060\035\000\031\125\035\016\004\026\004\024\265
\003\036\160\073\141\202\152\022\252\030\123\353\003\041\224\277
\376\316\312\060\150\061\111\052\206\110\206\367\015\000\010\013
\005\000\000\03\202\001\001\000\126\075\357\224\325\275\332\163\262
\130\276\256\220\255\220\047\227\376\011\261\260\122\000\270\0115
\344\033\041\114\033\176\300\356\136\151\052\045\257\134\326\035
\332\232\17\13\33\363\227\051\340\206\207\336\004\131\107\361\131
\324\144\205\113\231\257\045\004\036\31\016\251\227\336\202\262
\033\160\237\234\366\257\161\061\335\173\005\245\054\323\271\1312
\107\366\312\362\366\347\255\271\110\077\274\026\267\301\159\364
\352\201\125\354\363\265\347\005\236\246\036\212\123\121\326\223
\201\131\164\223\366\271\332\324\246\045\005\164\171\132\176\100\0076
\202\113\046\021\060\156\341\077\101\037\107\000\065\325\365\323
\367\124\076\201\075\332\111\152\232\256\357\020\075\346\353\157
\321\130\042\071\313\134\170\001\061\222\331\030\343\042\276\011
\036\032\076\132\262\344\153\014\124\172\175\103\116\270\211\245
\173\327\240\075\226\206\314\362\046\064\055\152\022\223\235\232\032
\320\060\342\135\116\004\256\137\213\040\176\167\301\075\225\202
\321\106\032\203\074\170\270\157\241\320\015\144\242\170\036\051
\116\223\303\244\124\024\133
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "T-TeleSec GlobalRoot Class 3"
# Issuer: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services
# GmbH,C=DE
# Not Valid After: Sat Oct 01 23:59:59 2033
# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 1", Bug 825022
# Issuer: O=RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=RKTRUST Elektronik Sunucu Sertifikas.. Hizmetleri
# Serial Number: 2087 (0x827)
# Subject: CN=*.EGO.GOV.TR,OU=EGO BILGI ISLEM,O=EGO,L=ANKARA,ST=ANKARA,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Tue Jul 06 07:07:51 2021

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 1"

END

CKA_ISSUER MULTILINE_OCTAL
\060\0201\220\061\013\060\011\006\003\125\004\006\023\002\104\0105
\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163
\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040
\123\145\162\166\151\143\145\163\040\107\155\142\110\061\103\070\060
\035\006\003\125\004\013\140\226\124\055\123\171\163\164\145\155
\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045
\060\043\006\003\125\004\003\104\034\124\055\124\145\154\145\123
\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154
\141\163\163\040\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
\172\155\145\164\154\145\162\151\040\101\056\305\236\056\040\0050
\143\051\040\113\141\163\304\261\155\040\040\062\060\060\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\010\144
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Explicitly Distrust "TURKTRUST Mis-issued Intermediate CA 2", Bug 825022
# Issuer: O=TR:RKTRUST Bilgi ..leti..im ve Bili..im G..venli..i Hizmetleri A...,C=TR,CN=TR:RKTRUST Elektronik
Su..ucu Sertifikas.., Hizmetleri
# Serial Number: 2148 (0x864)
# Subject: E=ilet@kktcmerkezbankasi.org,CN=e-islem.kktcmerkezbankasi.org,O=KKTC Merkez
Bankasi,L=Lefkosa,ST=Lefkosa,C=TR
# Not Valid Before: Mon Aug 08 07:07:51 2011
# Not Valid After : Thu Aug 05 07:07:51 2021
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TURKTRUST Mis-issued Intermediate CA 2"
CKA_ISSUER MULTILINE_OCTAL
\060\020\215\046\066\073\003\125\004\003\014\064\123\030
\234\122\113\124\122\125\123\124\040\105\154\145\153\164\162\157
\156\151\153\040\123\165\156\165\143\165\040\123\145\162\164\151
\146\151\153\141\163\304\261\040\101\151\172\155\145\164\154\145
\162\151\061\130\060\011\100\060\003\125\004\000\023\002\124\122\061
\136\060\134\006\003\125\004\012\014\125\124\303\234\122\113\124
\122\125\123\124\040\102\151\154\147\151\104\304\260\154\145\164
\151\130\237\151\155\040\166\145\040\102\151\154\151\130\237\151
\155\040\107\030\274\166\145\156\154\151\304\237\151\040\110\151
\172\155\145\164\154\145\162\151\040\101\056\305\236\056\040\050
\143\051\040\113\141\163\304\261\155\040\040\062\060\060\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\010\144
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_NOT_TRUSTED
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "D-TRUST Root Class 3 CA 2 2009"

Issuer: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE

Serial Number: 623603 (0x983f3)

Subject: CN=D-TRUST Root Class 3 CA 2 2009,O=D-Trust GmbH,C=DE

Not Valid Before: Thu Nov 05 08:35:58 2009

Not Valid After: Mon Nov 05 08:35:58 2029


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 2009"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
# Certificate "D-TRUST Root Class 3 CA 2 EV 2009"
Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009, O=D-Trust GmbH, C=DE
Serial Number: 623604 (0x983f4)
Not Valid Before: Thu Nov 05 08:50:46 2009
Not Valid After: Mon Nov 05 08:50:46 2029

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

END

END

END

END
Open Source Used In cnBR Operations Hub 22.2 16908
# Trust for "D-TRUST Root Class 3 CA 2 EV 2009"
# Issuer: CN=D-TRUST Root Class 3 CA 2 EV 2009, O=D-Trust GmbH, C=DE
# Serial Number: 623604 (0x983f4)
# Subject: CN=D-TRUST Root Class 3 CA 2 EV 2009, O=D-Trust GmbH, C=DE
# Not Valid Before: Thu Nov 05 08:50:46 2009
# Not Valid After: Mon Nov 05 08:50:46 2029

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root Class 3 CA 2 EV 2009"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\226\311\033\013\225\264\020\230\102\372\320\330\042\171\376\140
\372\271\026\203
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\252\306\103\054\136\055\315\034\064\300\120\117\021\002\117\266
END
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\013\060\011\006\003\125\004\006\023\002\104\105\061
\025\060\023\006\003\125\004\012\014\014\104\055\124\162\165\163
\164\040\107\155\142\110\061\052\060\050\006\003\125\004\003\014
\041\104\055\124\122\125\123\124\040\122\157\157\164\040\103\154
\141\163\163\040\063\040\103\101\040\062\040\103\126\040\062\060
\060\071
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\011\203\364
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Open Source Used In cnBR Operations Hub 22.2  16909
# Certificate "CA Disig Root R2"

# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After : Sat Jul 19 09:15:30 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\13\060\011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157\164\040\122\062
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\122\061\13\060\011\006\003\125\004\006\023\002\123\113\061\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125\004\003\023\020\103\101\040\104\151\163\151\147\040\122\157\157\164\040\122\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\022\270\210\03\33\260\212\301\143
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\151\160\162\020\003\121\124\000\160\002\111\140
\222\270\210\33\260\212\301\143\060\015\011\052\206\110\206\236\015\001\101\013\005\000\060\122\061\103\060\011\006\003\125\004\003\023\002\123\113\061\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163\154\141\166\141\061\124\020\104\151\163\151\147\040\141\056\163\056\163\061\003\060\027\006\003\125\004\003\023\002\103\101\040\104\151\163\151\147\040\122\157\157\164\040\122\062
END
\216\140\031\131\102\251\172\230\327\066\016\155\205\162\156\250
\306\242\155\366\372\163\143\177\274\156\171\101\034\235\212\237
\032\212\123\246\330\273\331\065\152\256\102\130\035\263\612
\073\271\120\223\342\123\161\360\375\323
\262\136\165\037\231\122\250\254\366\332\341\050\061\173\373\321
\106\263\322\274\147\264\142\124\272\101\173\143\260\223\242\232
\371\131\120\056\014\140\022\253\374\365\140\126\357\020\134\213
\130\032\102\334\203\133\144\016\313\265\274\132\611\173\301\174\074
\156\215\023\155\373\173\133\350\063\020\334\115\152\305\325\266\245
\114\133\161\131\350\061\127\350\070\006\110\241\032\342\352\323\322
\133\022\071\130\032\237\70\006\162\201\165\346\267\311\007\154\016
\357\377\070\361\230\161\304\267\177\101\025\320\045\151\275\042
\235\053\355\005\366\106\107\254\355\300\363\324\073\334\235\343\356
\226\133\220\023\116\036\126\072\353\260\357\226\273\226\043\021
\272\362\103\206\164\144\225\310\050\165\337\035\065\272\322\067
\203\030\173\070\066\73\317\154\353\371\153\016\320\373\004\350
\117\167\327\145\001\170\206\014\172\207\064\141\42\361\177\143\161
\014\311\237\043\333\250\047\242\165\276\165\201\076\327\300\353
\033\320\176\160\064\262\212\313\143\202\050\303\353\156\172\263
\367\132\241\010\277\251\110\222\363\140\042\227\344\024\244\1007
\233\116\166\300\216\175\375\244\045\307\107\355\377\037\163\254
\314\033\245\351\115\070\122\163\233\145\302\212\205\265\243\240\0123
\022\314\125\207\141\363\201\256\020\106\141\275\104\04\127\032
\075\164\317\160\044\065\372\034\007\016\233\075\042\312\357\061
\057\214\254\022\275\357\100\050\374\051\147\237\262\023\117\146
\044\304\123\013\151\036\051\025\357\346\155\260\177\055\147\375
\136\154\033\165\106\243\345\112\027\351\244\327\013
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "CA Disig Root R2"
# Issuer: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Serial Number:00:92:b8:88:db:b0:8a:c1:63
# Subject: CN=CA Disig Root R2,O=Disig a.s.,L=Bratislava,C=SK
# Not Valid Before: Thu Jul 19 09:15:30 2012
# Not Valid After: Sat Jul 19 09:15:30 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CA Disig Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\265\141\353\352\244\336\344\045\113\151\032\230\245\127\107\302
\064\307\331\161
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\001\373\330\047\247\027\232\105\124\070\032\103\001\073\003
END

CKA_ISSUER MULTILINE_OCTAL
\060\122\061\13\060\011\006\003\125\004\006\023\002\123\113\061
\023\060\021\006\003\125\004\007\023\012\102\162\141\164\151\163
\154\141\166\141\061\023\060\021\006\003\125\004\012\023\012\104
\151\163\151\147\040\141\056\163\056\061\031\060\027\006\003\125
\004\003\023\020\013\01\040\041\151\163\151\147\040\122\157\157
\164\040\122\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\000\222\270\210\333\260\212\301\143
END

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"

# Certificate "ACCVRAIZ1"
#
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After: Tue Dec 31 09:37:37 2030

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECTMULTILINE_OCTAL
\060\012\061\101\111\132\061\106\102\060\016\006\003\125\004\013\014
\007\012\014\131\111\101\103\013\126\061\105\060\013\006\003\125\004
\012\014\004\101\103\013\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\012\061\022\060\020\006\003\125\004\003\014\011\101\103\103

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Open Source Used In cnBR Operations Hub 22.2 16913
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "ACCVRAIZ1"
# Issuer: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1
# Serial Number:5e:c3:b7:a6:43:7f:a4:e0
# Subject: C=ES,O=ACCV,OU=PKIACCV,CN=ACCVRAIZ1

# Open Source Used in cnBR Operations Hub 22.2  16916
# Not Valid Before: Thu May 05 09:37:37 2011
# Not Valid After : Tue Dec 31 09:37:37 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ACCVRAIZ1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\223\005\172\210\025\306\117\316\210\057\372\221\026\122\050\170
\274\123\144\027
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\320\240\132\356\005\266\011\122\041\241\175\361\262\051\202\002
END
CKA_ISSUER MULTILINE_OCTAL
\060\102\061\022\060\020\006\003\125\004\003\140\111\011\010\103\103
\126\122\101\111\132\061\061\020\060\016\006\003\125\004\130\14
\007\120\113\111\010\103\103\126\061\015\060\013\006\003\125\004
\102\014\004\101\103\103\126\061\013\060\011\006\003\125\004\006
\023\002\105\123
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\136\303\267\246\103\177\244\340
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TWCA Global Root CA"
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\130\060\011\006\003\0132\5004\0006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\112\127\101\116
\055\013\010\061\020\060\016\060\033\125\004\013\023\007\122\157
\157\164\040\013\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\07\154\157\142\141\154\040\122\157\157\164
\040\03\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\101\060\202\003\051\240\003\002\001\002\002\002\276\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000
\060\121\061\013\060\011\006\003\0132\5004\0006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\112\127\101\116
\055\013\010\061\020\060\016\060\033\125\004\013\023\007\122\157
\157\164\040\010\103\101\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\101\040\07\154\157\142\141\154\040\122\157\157\164
\040\03\101
END


END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “TWCA Global Root CA”
# Issuer: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Serial Number: 3262 (0xcbe)
# Subject: CN=TWCA Global Root CA,OU=Root CA,O=TAIWAN-CA,C=TW
# Not Valid After : Tue Dec 31 15:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TWCA Global Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\234\273\110\123\366\244\366\323\122\244\350\062\122\125\140\023
\365\255\257\145
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\371\003\176\317\346\236\074\163\172\052\220\007\151\377\053\226
END

CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\022\060\020\006\003\125\004\012\023\011\124\101\111\127\101\116
\055\013\101\061\020\060\16\006\003\125\004\013\023\007\122\157
\157\164\040\103\010\061\034\060\032\006\003\125\004\003\023\023
\124\127\103\010\040\107\154\157\142\141\154\040\122\157\157\164
\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\014\276
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226
END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\070\060\202\003\040\240\003\002\001\002\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372\213\315\226\060\015\006\105\052\206\110\206\367\015\001\001\005\005\000\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166\061\060\061\062\060\060\065\060\060\060\063\027\015\060\067\061\070\061\062\060\060\065\060\132\027\015\063\062\062\061\060\061\070\061\062\060\060\065\060\132\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154\151\141\123\157\156\145\162\141\106\103\060\035\006\003\125\004\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122\157\157\164\040\103\101\040\166\061
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\134\253\140\021\142\315\221\007\326\245\277\310\231\153\355\304
\031\346\253\114\022\120\157\061\342\161\111\131\077\166\200
\046\003\046\051\340\066\366\040\123\343\027\160\064\027\235
\143\150\036\153\354\007\326\245\277\134\215\006\110\255\164\207\137\307
\374\061\124\101\023\342\307\041\106\236\340\036\015\341\030\173
\103\205\220\035\212\130\306\145\012\170\127\362\206\043\017\001
\331\040\113\336\017\373\222\205\165\050\321\143\63\155\173\045
\221\132\356\015\025\326\060\113\000\034\323\261\131\112\032\072\210
\073\051\103\106\136\227\053\124\316\123\157\215\112\347\226\372
\277\161\016\102\213\174\375\050\240\320\101\312\332\304\201\114
\237\242\163\223\046\310\035\001\143\260\465\210\266\300\044\317\273
\275\133\353\165\175\351\010\216\206\063\054\171\167\011\151\245
\211\374\263\160\222\020\71\167\017\233\042\273\102\216\275\163\013
\040\046\052\320\233\075\160\036\044\154\315\207\166\251\027\226
\267\317\015\222\373\216\030\251\230\011\132\236\376\140\041\162
\041\271\031\355\030\236\506\136\071\101\210\220\044\165\124\026
\255\316\364\370\151\202\414\007\137\323\243\270\272\160\100\307\047
\034\277\030\126\123\372\143\145\320\363\034\016\026\365\153\206
\130\115\030\034\344\015\216\245\235\133\221\334\166\044\120\077
\306\052\373\331\267\234\265\326\346\320\331\350\031\123\025\161
\110\255\267\352\330\131\210\324\220\277\026\263\331\351\254\131
\141\142\310\043\272\312\301\132\341\271\040\114\217\072\223\211
\245\240\314\277\323\366\165\244\165\226\155\126

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TeliaSonera Root CA v1"
# Issuer: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Subject: CN=TeliaSonera Root CA v1,O=TeliaSonera
# Not Valid Before: Thu Oct 18 12:00:50 2007
# Not Valid After : Mon Oct 18 12:00:50 2032

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TeliaSonera Root CA v1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\023\273\226\361\132\255\206\233\301\116\152\222\366\317\366\064
\151\207\202\067
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\067\101\111\033\030\126\232\046\365\255\302\146\373\100\245\114

Open Source Used In cnBR Operations Hub 22.2 16923
END
CKA_ISSUER MULTILINE_OCTAL
\060\067\061\024\060\022\006\003\125\004\012\014\013\124\145\154
\151\141\123\157\156\145\162\141\061\037\060\035\006\003\125\004
\003\014\026\124\145\154\151\141\123\157\156\145\162\141\040\122
\157\157\164\040\103\010\040\166\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\225\276\026\240\367\056\106\361\173\071\202\162\372
\213\315\226
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "E-Tugra Certification Authority"
#
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A.....L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im Teknolojileri ve Hizmetleri A.....L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\262\061\013\060\001\11\006\003\125\004\006\023\002\124\122
\061\17\060\015\006\003\125\004\007\014\006\101\156\153\141\116
\141\061\100\060\076\006\003\125\004\012\140\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\130\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\154\145\162\151\040\101\056
\305\236\056\061\146\060\004\006\003\125\004\013\014\035\010\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\105\060\006\006
\003\125\004\003\014\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\157\040\101\165\164\150
\157\162\151\164\171
END
BEGIN
\%23076\1217\200\151\276\223\107\265\065\103\322\132\273\075\134\357\263\102\107\315\073\125\023\006\260\011\133\375\143\366\072\210\012\231\157\176\341\136\033\123\152\104\146\043\121\010\173\274\133\122\242\375\006\067\070\100\141\127\11\22\267\022\006\72\370\146\307\170\220\000\025\056\213\255\121\065\123\007\250\153\150\025\371\116\074\007\046\315\100\100\141\047\117\166\225\124\53\147\040\011\134\357\122\117\336\364\027\315\062\345\126\374\077\264\235\332\160\234\166\132\214\103\120\056\216\060\162\115\337\377\111\136\306\251\147\331\155\254\002\021\342\072\026\045\247\130\010\131\157\123\101\234\110\070\107\150\063\321\327\037\217\324\164\041\132\343\030\005\220\172\237\316\226\020\261\025\051\135\043\253\320\140\024\012\171\336\364\027\315\062\345\311\277\310\103\255\375\056\216\361\257\324\362\230\372\022\037\040\330\300\247\014\205\305\220\364\073\055\226\046\211\054\276\114\253\353\261\322\212\311\133\170\023\017\036\011\123\51\217\000\237\002\323\301\137\203\172\172\011\034\112\346\210\052\227\237\71\121\373\056\117\137\072\313\160\070\131\206\113\257\161\013\264\330\362\160\117\237\062\023\343\260\247\127\345\332\332\103\313\204\064\362\050\304\352\155\364\052\357\301\115\316\332\373\176\273\020\054\322\123\302\115\276\161\134\105\321\375\043\147\015\023\165\373\317\145\147\042\235\256\260\011\321\011\137\035\064\237\376\043\227\022\067\322\071\137\207\052\015\006\013\264\333\073\243\253\157\134\035\266\176\350\263\202\064\355\006\134\044\END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "E-Tugra Certification Authority"
# Issuer: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
# Serial Number:6a:68:3e:9c:51:9b:cb:53
# Subject: CN=E-Tugra Certification Authority,OU=E-Tugra Sertifikasyon Merkezi,O=E-Tu..ra EBG Bili..im
Teknolojileri ve Hizmetleri A....,L=Ankara,C=TR
# Not Valid Before: Tue Mar 05 12:09:48 2013
# Not Valid After : Fri Mar 03 12:09:48 2023
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "E-Tugra Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\306\347\010\111\006\156\363\222\324\134\240\015\155\243\142\217\303\122\071
END

Open Source Used In cnBR Operations Hub 22.2 16927
Open Source Used In cnBR Operations Hub 22.2 16928

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\270\241\003\143\260\275\041\161\160\212\157\023\072\273\171\111 END

CKA_ISSUER_MULTILINE_OCTAL
\060\020\126\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\060\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\145\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\105\006\060\046\006
\003\125\004\030\140\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171 END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\152\150\076\234\121\233\313\123 END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "T-TeleSec GlobalRoot Class 2"
#
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:79:DF:6A
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\126\061\013\060\011\006\003\125\004\006\023\002\124\122
\061\017\060\015\006\003\125\004\007\014\006\101\156\153\141\162
\141\061\100\060\076\060\003\125\004\012\014\067\105\055\124\165
\304\237\162\141\040\105\102\107\040\102\151\154\151\305\237\151
\155\040\124\145\153\156\157\154\157\152\151\154\145\162\151\040
\166\145\040\110\151\172\155\145\164\145\145\162\151\040\101\056
\305\236\056\061\046\060\044\006\003\125\004\013\014\035\105\055
\124\165\147\162\141\040\123\145\162\164\151\146\151\153\141\163
\171\157\156\040\115\145\162\153\145\172\151\061\105\006\060\046\006
\003\125\004\030\140\037\105\055\124\165\147\162\141\040\103\145
\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150
\157\162\151\164\171

Open Source Used In cnBR Operations Hub 22.2 16928
# Trust for “T-TeleSec GlobalRoot Class 2”
# Issuer: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Serial Number: 1 (0x1)
# Subject: CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE
# Not Valid After : Sat Oct 01 23:59:59 2033
# Fingerprint (MD5): 2B:9B:9E:E4:7B:6C:1F:00:72:1A:CC:C1:77:79:DF:6A
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "T-TeleSec GlobalRoot Class 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\131\015\055\175\210\117\100\056\141\176\245\142\062\027\145\317\027\330\224\351
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\053\233\236\344\173\154\037\000\162\032\314\301\167\171\133\152
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\202\061\013\060\001\11\006\003\125\004\006\023\002\104\015\061\053\060\051\006\003\125\004\012\014\042\124\055\123\171\163\164\145\155\163\040\105\156\164\145\162\160\162\151\163\145\040\123\145\162\166\151\143\145\163\040\107\155\142\110\061\103\060\035\006\003\125\004\013\014\026\124\055\123\171\163\164\145\155\163\040\124\162\165\163\164\040\103\145\156\164\145\162\061\045\060\043\006\003\125\004\003\014\034\124\055\124\145\154\145\123\145\143\040\107\154\157\142\141\154\122\157\157\164\040\103\154\141\163\163\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\001
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Atos TrustedRoot 2011"
#
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
"\172\214\007\002\003\001\000\000\012\243\175\060\173\060\035\006\003\125
\125\035\016\004\026\000\024\247\245\006\261\054\246\011\140\035\632\122\273\51\160\256\274\073\031\154\333\041\060\030\006
\003\125\035\040\004\021\060\017\060\015\006\013\053\006\001\004
\001\126\055\003\004\001\000\101\060\016\006\003\125\035\017\001\001
\377\004\004\003\000\200\026\247\245\006\015\006\011\052\206\110\206\367
\015\000\100\010\130\050\000\000\120\001\001\000\046\167\064\333\224
\110\206\052\101\235\054\076\006\220\140\034\214\254\013\124\270
\037\271\173\323\007\071\344\372\076\173\326\075\116\355\237\043
\275\227\363\153\134\357\356\375\100\246\337\241\223\241\012\206
\254\357\040\032\017\010\012\275\170\036\031\133\004\061\064\004\001
\246\272\025\232\303\047\334\330\117\017\134\030\143\377\231\017
\016\221\153\165\026\341\041\374\330\046\307\107\267\246\317\130
\162\161\176\272\341\115\225\107\073\311\257\155\241\263\031\354
\211\136\266\041\170\076\263\342\144\334\045\317\246\333\353\232\134
\231\124\130\010\336\375\346\332\325\326\132\105\014\304\267\302
\265\024\357\264\021\377\016\252\265\365\356\333\306\275\353\132
\247\360\126\042\251\107\415\124\236\062\250\275\206\236\315\203
\226\150\172\161\201\121\134\013\341\352\021\033\150\010\314\151
\236\354\236\101\236\104\062\046\172\342\207\012\161\075\353\344
\132\244\322\333\305\315\306\336\140\177\271\136\117\104\222\357
\502\267\030\076\247\031\333\013\175\261\067\101\102\260\272\140
\035\362\376\011\021\260\360\207\173\247\235
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Atos TrustedRoot 2011"
# Issuer: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Serial Number:5c:33:cb:62:2c:5f:b3:32
# Subject: C=DE,O=Atos,CN=Atos TrustedRoot 2011
# Not Valid Before: Thu Jul 07 14:58:30 2011
# Not Valid After: Tue Dec 31 23:59:59 2030
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Atos TrustedRoot 2011"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\261\365\076\125\014\035\305\361\324\346\267\152\106\113\125
\006\002\254\041
END
# Certificate "QuoVadis Root CA 1 G3"

# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_SERVICE AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_SERVICE_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_SERVICE_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_SERVICE_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "QuoVadis Root CA 1 G3"
# Issuer: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 1 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 17:27:44 2012
# Not Valid After : Sun Jan 12 17:27:44 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 1 G3"

# Certificate "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):
\346\140\136\157\035\177\311\037\043\313\204\141\237\036\202\104
\371\137\255\142\125\044\232\122\230\355\121\347\241\176\227\072
\346\057\037\021\332\123\200\054\205\236\253\065\020\333\034\213
\152\305\136\227\123\362\062\002\011\060\243\113\360\015\5001\132
\162\306\261\174\151\173\303\365\066\105\314\141\156\136\114\224
\305\136\356\350\161\136\213\277\367\315\340\355\241\016\033\063
\356\124\030\376\017\276\357\176\204\153\103\343\160\230\333\135
\165\262\015\131\007\205\025\043\071\132\363\131\337\251\046\017\326
\110\037\263\246\042\365\063\067\112\222\073\371\073\272\030\025
\157\377\326\024\144\203\111\032\012\147\041\133\017\065\143\140
\050\042\343\261\225\203\115\020\246\330\057\173\347\147\122\156
\273\057\205\174\365\112\163\347\305\076\300\275\041\022\005\077
\374\267\003\111\002\123\310\045\346\342\124\070\365\171\207\214
\035\123\262\116\205\173\006\070\307\054\370\370\260\162\215\045
\345\167\122\364\003\034\111\024\246\121\137\110\040\060\156\362\202
\103\253\075\227\204\347\123\373\041\011\117\017\042\232\206\270
\131\052\366\107\075\031\210\055\350\205\341\123\354\205\010\012
\261\154\064\311\035\354\110\053\073\170\355\146\304\216\171\151
\203\336\177\214
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 2 G3"
# Issuer: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Subject: CN=QuoVadis Root CA 2 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 18:59:32 2012
# Not Valid After : Sun Jan 12 18:59:32 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_TRUE
CKA_LABEL UTF8 "QuoVadis Root CA 2 G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\011\074\141\363\213\213\334\175\125\337\165\070\002\005\000\034
\045\365\130\066
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\257\014\206\156\277\100\055\177\013\076\022\120\272\022\075\006
END

CKA_ISSUER MULTILINE_OCTAL
\060\101\061\101\060\001\100\060\003\125\004\060\202\003\021\150\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
```
1\177\225\367\366\055\255\000\107\000\004\372\165\200\175\277\111
\120\355\357\311\304\174\034\353\352\001\176\333\266\320\335\023\336
\311\323\234\327\226\222\251\002\030\001\000\001\243\102\060\100
\060\017\000\060\033\125\035\023\001\000\013\77\004\005\060\003\001\001
\377\060\016\006\000\03\125\035\017\001\001\013\77\004\004\003\002\001
\009\060\030\006\031\125\035\016\004\026\004\024\036\027\320\027
\250\035\200\021\033\362\023\000\061\135\320\250\223\443\411\250\223\667\172\161
\050\151\217\163\334\112\222\200\332\323\252\760\027\345\267\166\152\126
\200\041\337\135\346\365\017\236\345\076\366\242\151\307\052\012
\260\030\107\334\040\016\060\175\122\234\076\131\174\301\273\321\1130
\025\100\141\132\162\326\160\254\322\267\360\034\344\206\051\136
\316\357\150\143\320\265\040\212\025\141\123\217\62\206\230\264\311
\302\166\373\314\272\060\026\314\243\141\306\164\023\345\153\357
\243\035\230\003\376\023\144\144\344\323\301\322\350\204\373\111
\321\020\115\171\146\335\252\375\364\215\061\036\160\024\255\334
\336\147\023\114\201\025\141\274\267\331\221\167\161\031\201\140
\273\360\130\254\265\234\013\367\217\042\125\047\300\113\000\155
\073\231\015\324\030\352\233\143\147\057\320\356\151\321\146\274\224
\117\246\255\355\374\356\143\254\127\077\145\045\317\262\206\217
\320\010\377\270\166\024\156\336\364\047\345\253\170\265\123\271
\266\077\350\040\371\322\250\276\141\106\312\207\214\204\363\371
\361\120\150\233\040\205\061\046\233\302\000\042\221\161\130\006\037
\334\240\323\271\126\247\343\230\055\177\203\235\337\214\053\324
\062\166\024\224\360\001\074\042\052\237\103\032\056\303\230\071
\007\070\173\374\136\000\102\037\363\062\046\171\203\204\366\345
\360\030\121\022\300\013\030\060\044\043\014\245\114\057\111\305
\112\321\266\156\140\015\153\374\153\213\205\044\144\267\211\016
\253\045\101\173\307\034\171\176\111\127\50\375\137\013\206\332\367\176
\016\027\010\032\311\102\273\320\161\122\236\001\071\016\066\045\152\034
\175\330\362\042\256\273\151\364\063\262\446\110\125\321\017\016
\046\350\035\260\130\055\247\205\065\135\375\131\102\273\321\315
\076\132\051\064\271\075\204\136\261\145\324\131\221\221\126\165
\041\130\167\236\367\112\334\140\202\353\323\325\004\030\364\174\353
\136\223\217\123\112\042\051\370\110\053\076\115\206\254\133\177
\313\060\233\131\140\030\130\045\225\021\50\321\367\177\176\047
\177\175\256\000\365\007\114\266\076\234\161\124\231\004\113\375
\130\371\230\364
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "QuoVadis Root CA 3 G3"
# Issuer: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
```
# Subject: CN=QuoVadis Root CA 3 G3,O=QuoVadis Limited,C=BM
# Not Valid Before: Thu Jan 12 20:26:32 2012
# Not Valid After: Sun Jan 12 20:26:32 2042

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "QuoVadis Root CA 3 G3"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\110\022\275\222\074\250\304\071\006\347\060\155\047\226\346\244
\317\042\056\175
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\337\175\271\255\124\157\150\241\337\211\127\003\227\103\260\327
END

CKA_ISSUER MULTILINE_OCTAL
\060\110\061\013\060\011\006\003\125\004\006\023\002\102\115\061
\031\060\027\006\003\125\004\012\023\020\121\165\157\126\141\144
\151\163\040\141\151\155\151\164\145\144\061\036\060\034\006\003
\125\004\003\023\025\121\165\157\126\141\144\151\163\040\122\157
\157\164\040\013\101\040\063\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\056\365\233\002\050\247\333\172\377\325\243\251\356\275
\003\240\317\022\152\035
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "DigiCert Assured ID Root G2"
#
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After: Fri Jan 15 12:00:00 2038

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\130\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\144\040\111\156\143\061\130\160\027\006\003\125\004\013\023
\020\167\167\167\156\144\151\154\151\151\154\156\143\157
\155\061\144\040\060\024\060\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\130\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\144\040\111\156\143\061\130\160\027\006\003\125\004\013\023
\020\167\167\167\156\144\151\154\151\151\154\156\143\157
\155\061\144\040\060\024\060\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\223\034\072\326\071\147\352\147\043\277\303\257\232
\364\113
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\226\060\202\002\176\240\003\002\001\002\002\020\013
\223\034\072\236\071\147\352\147\043\277\303\257\232\364\113
\015\006\110\052\120\110\206\020\037\015\001\001\001\005\000\006\0145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\144\040\111\156\143\061\130\160\027\006\003\125\004\013\023
\020\167\167\167\156\144\151\154\151\151\154\156\143\157
\155\061\144\040\060\024\060\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\226\060\202\002\176\240\003\002\001\002\002\020\013
\223\034\072\236\071\147\352\147\043\277\303\257\232\364\113
\015\006\110\052\120\110\206\020\037\015\001\001\001\005\000\006\0145
\061\013\060\011\006\003\125\004\006\023\002\125\123\061\025\060
\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\144\040\111\156\143\061\130\160\027\006\003\125\004\013\023
\020\167\167\167\156\144\151\154\151\151\154\156\143\157
\155\061\144\040\060\024\060\003\125\004\003\023\033\104\151\147\151
\103\145\162\164\040\101\163\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\062
END

Open Source Used In cnBR Operations Hub 22.2  16945
\057\122\077\066\162\111\121\202\223\064\363\370\152\036\061\124\200
\123\255\124\101\265\107\337\226\250\324\257\200\055\277\101\123\117
\165\375\211\245\175\044\372\343\042\014\053\274\225\027\013\063
\277\031\115\101\006\220\000\275\014\115\020\376\007\265\347\034
\156\042\125\061\114\145\227\272\323\027\322\203\142\363\333\352\154
\120\201\147\074\014\122\263\177\267\313\030\340\312\155\241\102\214
\033\211\335\355\000\260\122\174\257\221\154\261\070\002\321\351
\022\2010\300\000\260\003\045\302\133\322\167\160\066\233\256\316\171
\207\373\344\201\160\346\011\116\164\160\125\151\275\243\150\237\277\335
\266\171\126\362\235\160\051\125\364\253\377\225\141\363\311\100
\157\035\321\276\223\273\323\210\052\273\235\277\371\126\132\126\161
\073\037\324\363\332\102\376\050\357\243\336\331\231\125\70\003\323
\217\140\267\362\222\241\126\125\211\110\037\060\315\303\246\056
\142\063\256\026\002\167\104\132\347\201\102\074\247\104\056\171
\270\077\004\274\134\240\207\341\033\325\71\121\163\155\354\004\343
\370\376\155\360\072\174\252\213\344\047\225\061\121\000\200\003\001
\000\000\124\310\026\060\010\006\017\006\003\125\035\023\000\010\137
\004\005\060\003\004\000\010\013\077\006\000\126\060\003\050\000\003
\125\035\016\004\002
\004\024\316\033\121\271\231\125\362\270\333\140\277\251\176\265
\126\265\227\066\247\326\060\015\006\011\052\206\110\206\367\015
\001\000\013\005\000\003\202\001\100\100\003\122\245\125\214\343\310
\101\156\151\104\247\165\021\357\074\206\066\157\322\235\036\170
\070\035\151\226\242\222\151\056\070\154\233\175\004\324\211\224
\261\061\067\212\311\041\314\253\154\315\213\034\232\326\277\110
\322\062\146\031\123\003\057\072\357\003\343\324\221\206\321
\120\343\003\333\163\167\157\112\071\123\355\336\046\307\265\175
\257\053\102\321\165\142\343\111\205\000\230\120\113\340\151\134
\226\154\016\104\146\020\104\217\255\005\353\370\171\125\424\033
\350\070\064\235\123\311\141\252\242\122\225\71\121\600\206\260\302
\072\310\261\023\160\066\330\317\356\364\012\064\325\153\114\343
\007\234\242\272\323\100\116\234\363\115\301\335\016\261\104\015
\304\143\276\255\364\024\373\211\354\242\101\106\114\314\340\127
\100\320\156\003\252\315\014\262\112\231\123\154\360\074\060\257
\070\337\157\274\243\276\051\040\047\253\164\377\023\042\170\336
\227\122\125\036\203\265\124\040\000\356\256\300\117\126\336\067
\314\303\177\252\004\047\273\323\167\270\142\333\027\174\234\050
\042\023\163\154\317\046\365\212\051\347
END
CKA_NSS MOZILLA CA POLICY CK BBPOOL CK_TRUE
CKA_NSS SERVER DISTRUST AFTER CK BBPOOL CK_FALSE
CKA_NSS EMAIL DISTRUST AFTER CK BBPOOL CK_FALSE

# Trust for "DigiCert Assured ID Root G2"
# Issuer: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Certificate "DigiCert Assured ID Root G3"

# Issuer: CN=DigiCert Assured ID Root G3,O=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,O=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\014\065\012\013\067\012\013\065\010\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\003\023\014\014\151\147\151\103\145
\162\144\040\111\156\143\061\031\060\027\006\003\125\003\013\023
\020\167\167\167\167\167\056\144\151\147\151\143\143\145\162\164\056\143\157
\155\061\044\060\023\006\003\125\003\023\013\044\151\147\151
\103\145\162\164\040\101\116\163\163\165\162\145\144\040\111\110\040
\122\157\157\164\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\014\065\012\013\067\012\013\065\010\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\003\023\014\014\151\147\151\103\145
\162\144\040\111\156\143\061\031\060\027\006\003\125\003\013\023
\020\167\167\167\167\167\056\144\151\147\151\143\143\145\162\164\056\143\157
\155\061\044\060\023\006\003\125\003\023\013\044\151\147\151
\103\145\162\164\040\101\116\163\163\165\162\145\144\040\111\110\040
\122\157\157\164\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\265\111\110\257\315\044\240
\154\354
END
CKA_VALUE MULTILINE_OCTAL
\060\020\023\010\066\020\021\000\131\124\003\003\020\002\002\020\013
\124\132\372\035\337\240\265\111\110\257\315\044\240
\154\354
END
# Trust for "DigiCert Assured ID Root G3"

# Issuer: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Assured ID Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Assured ID Root G3"

CKA_ISSUER MULTILINE_OCTAL

\146\176\037\345\334\033\105\171\013\314\306\123\012\235\215\135
\002\331\251\131\336\002\132\366\225\052\016\215\070\112\212\111
\306\274\306\003\070\007\137\125\332\176\011\156\342\177\136\320
\105\040\017\131\166\200\326\240\044\360\055\336\066\362\154\051
\071\243\102\060\100\060\017\006\060\031\125\035\023\001\000\137\77\004
\005\060\030\001\137\77\060\196\060\004\035\125\035\017\000\100\137\377
\004\004\003\002\001\206\035\006\003\125\035\016\004\026\004
\024\331\320\275\251\341\230\005\121\241\115\067\242\203\171\316
\121\035\052\344\204\060\012\006\010\052\206\110\316\075\004\003
\003\003\147\000\060\144\002\060\045\244\201\105\002\153\022\113
\165\164\117\310\043\343\160\362\165\162\336\174\211\360\317\221
\162\141\236\136\020\222\131\126\271\203\307\020\347\070\351\130
\046\066\175\325\344\064\206\071\002\060\174\066\123\360\060\345
\142\143\072\231\342\266\243\073\233\064\372\036\332\020\222\161
\136\221\023\247\335\244\156\222\314\062\236\365\041\146\307\057
\352\226\143\152\145\015\222\225\001\1264
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
\103\145\162\164\040\101\163\165\162\145\144\040\111\104\040
\122\157\157\164\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\013\241\132\372\035\337\240\154\354
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Global Root G2"
#
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\061\013\060\000\110\006\003\125\004\006\023\002\125\123\061
\025\060\023\000\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\154\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\061\103\060\011\006\003\125\004\006\023\002\125\123\061
\025\060\023\000\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\154\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\062
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Global Root G2"
# Issuer: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G2,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\337\074\044\371\277\326\146\166\033\046\200\163\376\006\321\314 \215\117\202\244
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\344\246\212\310\124\25A\122\102\106\012\375\162\110\033\052\104
END
CKA_ISSUER MULTILINE_OCTAL
\06D\014\061\013\060\001\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\015\147\151\103\145
\162\164\040\011\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\010\7\154\157\142\141\154\040\122\157\157\164
\040\0107\062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\0020\0200\0003\072\361\346\247\021\251\240\0273\050\144\261\035\011
\372\345
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "DigiCert Global Root G3"
#
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Global Root G3"
CKA_SUBJECT MULTILINE_OCTAL
\060\141\060\013\060\001\100\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\060\013\060\001\100\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\104\151\147\151\103\145
\162\164\040\111\156\143\061\031\060\027\006\003\125\004\013\023
\020\167\167\167\167\056\144\151\147\151\143\145\162\164\056\143\157
\155\061\040\060\036\006\003\125\004\003\023\027\104\151\147\151
\103\145\162\164\040\107\154\157\142\141\154\040\122\157\157\164
\040\107\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\002\002\077\060\022\001\130\240\003\002\001\002\002\020\005
\125\126\274\362\136\244\065\065\030\244\017\325\0253
\105\162
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\077\060\022\001\130\240\003\002\001\002\002\020\005
\125\126\274\362\136\244\065\065\030\244\017\325\0253
\105\162
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “DigiCert Global Root G3”
# Issuer: CN=DigiCert Global Root G3,OU=www.digicert.com,O=DigiCert Inc,C=US
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\002\012\023\000\020\125\123\126\025\120\123
\162\164\140\011\156\143\064\031\060\027\006\003\012\050\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\161\164\056\143\157
\155\061\040\060\037\006\003\125\004\003\023\030\010\141\157\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\022\157\157
\164\040\010\070\064
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\002\012\023\000\020\125\123\126\025\120\123
\162\164\140\011\156\143\064\031\060\027\006\003\012\050\004\013\023
\020\167\167\167\056\144\151\147\151\143\145\161\164\056\143\157
\155\061\040\060\037\006\003\125\004\003\023\030\010\141\157\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\022\157\157
\164\040\010\070\064
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\233\033\127\020\011\052\206\110\206\367\165\134\060
\015\006\011\052\206\110\206\367\150\001\001\014\005\000\060\142
\061\031\060\011\006\003\012\050\004\006\023\002\125\123\061\025\060
\023\006\003\012\050\004\012\023\014\104\151\147\151\103\145
\162\164\040\124\162\165\163\164\145\144\040\022\157\157
\164\040\010\070\064
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\220\060\202\003\170\204\003\020\001\002\001\002\002\020\002
\233\033\127\236\216\041\062\342\071\007\275\247\167\165\134\060
\015\006\011\052\206\110\206\367\150\001\001\014\005\000\060\142
\061\031\060\011\006\003\012\050\004\006\023\002\125\123\061\025\060
\023\006\003\012\050\004\012\023\014\104\151\147\151\103\145
\162\164\040\124\162\165\163\164\145\144\040\022\157\157
\164\040\010\070\064
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "DigiCert Trusted Root G4"
# Issuer: CN=DigiCert Trusted Root G4,O=www.digicert.com,O=DigiCert Inc,C=US
# Subject: CN=DigiCert Trusted Root G4,O=www.digicert.com,O=DigiCert Inc,C=US
# Not Valid Before: Thu Aug 01 12:00:00 2013
# Not Valid After : Fri Jan 15 12:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "DigiCert Trusted Root G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\335\373\026\315\111\061\311\163\242\003\175\077\310\072\115\175
\167\135\005\344
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL

Open Source Used In cnBR Operations Hub 22.2 16958
\170\362\374\252\140\037\057\264\353\311\067\272\123\056\165\111
END

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\001\010\006\003\125\004\006\023\002\125\123\061
\025\060\023\006\003\125\004\012\023\014\014\151\147\151\103\145
\162\164\040\011\11\156\143\061\031\060\027\006\003\125\004\130\023
\020\167\167\167\056\144\141\151\147\151\143\145\162\164\056\143\157
\155\061\041\060\037\006\003\125\004\003\023\030\014\151\147\151
\103\145\162\164\040\124\162\165\163\164\145\144\040\122\157\157
\164\040\107\064
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\005\233\033\127\236\216\041\062\342\071\007\167\247\167
\165\134
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "COMODO RSA Certification Authority"
#
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "COMODO RSA Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\001\010\006\003\125\004\006\023\002\107\102
\061\033\060\031\010\006\003\125\004\010\023\022\017\162\145\141\164
\145\162\040\115\141\156\143\150\145\163\164\145\162\061\020\060
\016\006\003\125\004\007\023\007\123\141\154\146\157\162\144\061
\032\060\030\006\003\125\004\012\023\021\103\117\111\117\104\117
\104\013\101\040\114\151\155\151\164\145\144\061\053\060\051\006
\003\125\004\003\023\042\103\117\115\117\104\117\040\122\123\101
\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101
Open Source Used In cnBR Operations Hub 22.2  16960


```
\230\172\206\276\036\016\062\010\063\373\373\023\217\165\177\114\213
\113\106\143\376\000\064\100\160\301\303\271\241\335\246\160\342
\000\263\101\274\351\200\221\352\144\234\172\341\042\003\251\234
\156\157\016\145\117\154\207\207\136\363\156\240\371\165\245\233
\100\350\123\262\047\235\112\271\300\167\041\215\377\207\362\336
\274\124\357\027\337\267\111\013\321\362\156\060\013\032\016\116
\166\355\021\374\365\351\126\262\217\52\277\307\155\012\223\214\245
\320\300\266\035\276\072\116\224\242\327\156\154\013\302\212\174
\372\040\363\304\344\345\315\015\250\313\221\222\261\174\205\354
\265\024\151\146\016\202\347\315\316\130\055\246\121\177\041\301
\065\123\205\006\112\135\237\255\273\033\137\164
END

# Trust for "COMODO RSA Certification Authority"
# Issuer: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Subject: CN=COMODO RSA Certification Authority,O=COMODO CA Limited,L=Salford,ST=Greater Manchester,C=GB
# Not Valid Before: Tue Jan 19 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

# CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
# CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# CKA_TOKEN CK_BBOOL CK_TRUE
# CKA_PRIVATE CK_BBOOL CK_FALSE
# CKA_MODIFIABLE CK_BBOOL CK_FALSE
# CKA_LABEL UTF8 "COMODO RSA Certification Authority"
# CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\257\345\322\104\250\321\031\102\060\377\107\237\342\370\227\273
\315\172\214\264
END

# CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\061\260\161\110\066\314\024\066\221\255\304\076\375\354\030
END

# CKA_ISSUER MULTILINE_OCTAL
\060\201\205\061\013\060\011\106\000\03\125\000\006\023\002\107\102
\061\033\060\031\006\000\03\125\000\010\023\222\107\162\145\141\164
```
# Certificate "USERTrust RSA Certification Authority"

# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After: Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust RSA Certification Authority"
# Issuer: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust RSA Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust RSA Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\200\007\033\216\061\033\023\036\024\063\023\021\036\023\025\032\031\040\045\015\217\031\006\022\061\040\015\023\011\054\020\006\022\003\037\030\027\024\001\022\042\030\040\015\023\005\233\021\022\024\027\030\021\036\023\006\006\020\045\022\045\024\027
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\021\221\267\031\063\024\162\250\001\034\125\035\265
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\053\217\033\127\200\007\033\216\061\033\023\036\024\063\023\021\036\023\025\032\031\040\045\015\217\031\006\022\061\040\015\023\011\054\020\006\022\003\037\030\027\024\001\022\042\030\040\015\023\005\233\021\022\024\027\030\021\036\023\006\006\020\045\022\045\024\027
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\033\376\151\021\221\267\031\063\024\162\250\001\034\125\035\265
END
CKA_ISSUER MULTILINE_OCTAL
\006\201\212\061\013\006\001\11\066\003\125\004\006\023\002\125\123
\061\203\060\021\006\003\125\004\010\023\012\116\145\167\040\112
\145\162\163\145\171\061\024\060\022\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\103\151\164\171\061\036\060\034\006
Certificate "USERTrust ECC Certification Authority"

Issuer: CN=USERTrust ECC Certification Authority, O=The USERTRUST Network, L=Jersey City, ST=New Jersey, C=US


Subject: CN=USERTrust ECC Certification Authority, O=The USERTRUST Network, L=Jersey City, ST=New Jersey, C=US

Not Valid Before: Mon Feb 01 00:00:00 2010
Not Valid After: Mon Jan 18 23:59:59 2038

Fingerprint (SHA-256):


Class CKO_CERTIFICATE

Token CK_TRUE

Private CK_FALSE

Modifiable CK_FALSE

Label UTF8 "USERTrust ECC Certification Authority"

Certificate Type CKC_X_509

Subject MULTILINE_OCTAL

Issuer MULTILINE_OCTAL

Trust Server AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

Trust Email Protection CK_TRUST CKT_NSS_TRUSTED_DELEGATOR

Trust Code Signing CK_TRUST CKT_NSS_MUST_VERIFY_TRUST

Trust Step Up Approved CK_FALSE

ID 0

Issuer UTF8 "0"

Subject MULTILINE_OCTAL
\010\052\206\110\316\075\004\003\003\003\150\000\060\145\002\060
\066\147\241\026\010\334\344\227\000\101\035\116\276\341\143\001
\131\073\252\102\02\114\240\235\224\071\002\02\171\134\173\035
\372\144\271\135\026\102\26\277\123\020\113\04\354\344\261\115
\002\06\100\003\351\052\141\107\214\221\121\113\116\030\160\366\326
\104\326\156\365\032\272\155\130\275\044\331\126\110\352\357\304
\242\106\201\120\152\072\106\321\251\233\115\11\141\132\321\135
\127\152\030
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "USERTrust ECC Certification Authority"
# Issuer: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Subject: CN=USERTrust ECC Certification Authority,O=The USERTRUST Network,L=Jersey City,ST=New Jersey,C=US
# Not Valid Before: Mon Feb 01 00:00:00 2010
# Not Valid After : Mon Jan 18 23:59:59 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "USERTrust ECC Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\321\313\312\135\262\325\052\177\151\073\147\115\345\360\132\035
\014\225\175\360
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\372\150\274\331\265\177\255\137\311\035\006\203\050\314\044\301
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\210\061\013\060\011\010\060\031\125\004\006\023\002\125\123
\061\123\060\021\060\003\125\004\100\023\012\116\145\167\040\112
\145\162\163\145\171\061\012\040\060\122\006\003\125\004\007\023\013
\112\145\162\163\145\171\040\033\151\164\171\061\036\060\034\006
\003\125\004\012\023\025\124\150\145\040\125\123\051\122\124\122
\125\123\124\040\116\145\164\167\157\162\153\061\056\060\054\006
\003\125\004\003\023\045\125\123\105\122\124\162\165\163\164\040
\105\103\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
# Certificate "GlobalSign ECC Root CA - R5"

# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R5"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL
# Trust for "GlobalSign ECC Root CA - R5"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R5
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Staat der Nederlanden Root CA - G3"

# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden Root CA - G3"
CKA_CERTIFICATE_TYPE CK_Certificate_Type CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\061\013\060\011\006\003\125\004\006\023\002\116\114\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\140\131\111\340\046\056\273\125\371\012\167\212\161\371
\112\330\154
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\061\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\053\060\051\006\003\125\004\003\014\042\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\122\157\157\164\040\103\1\040\055\040\107\063

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\242\071

END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\164\060\202\003\134\240\000\032\001\002\000\204\000
\230\242\071\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\060\060\132\060\103\060\011\006\003\125\004\006\023\002\116
\114\061\036\060\034\006\003\125\004\012\014\025\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\061\053\060\051\006\003\125\004\003\014\042\123\164\141\141
\164\040\144\145\162\040\116\145\144\145\162\154\141\156\144\145
\156\040\122\157\157\164\040\103\1\040\055\040\107\063\060\036
\207\025\015\061\063\061\061\060\060\060\060\060\060\060\060\060
\025\015\062\070\061\061\060\063\062\063\060\060\060\060\060\060\060
\061\013\060\011\006\003\125\004\006\023\002\116\114\061\036\060
\034\006\003\125\004\012\014\025\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\061\053\060
\051\060\060\132\060\004\003\014\042\123\164\141\141\164\040\144\145
\162\040\116\145\144\145\162\154\141\156\144\145\156\040\122\157
\157\164\040\103\1\040\055\040\107\063\060\060\202\002\002\002\002
\000\276\062\242\124\017
\160\373\054\134\131\135\143\154\134\244\121\135\025\052\263\314\112
\064\362\260\137\363\016\037\034\075\123\036\210\010\150\303\157
\075\255\302\236\314\202\147\007\047\207\150\161\072\237\165\226
\042\106\005\260\035\255\307\133\236\052\233\266\347\072\236\225
\247\365\027\147\030\347\057\111\010\014\134\317\346\314\064\355
\170\373\120\261\334\153\062\360\242\376\266\074\344\354\132\227
\307\077\036\160\010\060\240\334\305\263\155\157\320\202\162\021
\253\222\201\150\131\202\027\267\170\222\210\347\321\134\336\077\204
\353\215\070\063\222\012\162\043\322\065\314\046\161\061\032\112
\050\222\331\113\043\155\146\265\155\007\102\353\246\063\316\222
\333\300\366\154\143\170\315\312\116\075\265\345\122\233\361\276
# Trust for "Staat der Nederlanden Root CA - G3"

# Issuer: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Serial Number: 10003001 (0x98a239)
# Subject: CN=Staat der Nederlanden Root CA - G3,O=Staat der Nederlanden,C=NL
# Not Valid Before: Thu Nov 14 11:28:42 2013
# Not Valid After : Mon Nov 13 23:00:00 2028

Fingerprint (SHA-256): 


cka_nss_mozilla_ca_policy CK_BBOOL CK_TRUE
cka_nss_server_distrust_after CK_BBOOL CK_FALSE
cka_nss_email_distrust_after CK_BBOOL CK_FALSE
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Staat der Nederlanden EV Root CA"
#
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After: Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"

END

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
\230\226\044\374\251\314\032\212\373\047\270\277\060\156\250\073
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\003
\202\002\000\100\317\167\054\156\126\276\116\263\266\204\000\022
\253\107\311\015\322\166\307\206\237\035\007\323\266\264\273\010
\170\257\151\322\013\11\13\366\063\305\254\255\302\210\002\175\006
\267\065\002\301\140\311\277\304\350\224\336\324\323\251\023\045
\132\376\156\242\256\175\005\034\175\363\154\360\176\246\215\356
\331\137\316\130\027\350\251\051\125\163\110\207\347\233\331\121\156
\051\152\144\141\370\031\236\276\121\306\233\115\125
\045\117\223\231\020\001\123\165\361\023\136\307\246\101\101\322
\277\210\245\177\105\374\254\270\204\256\063\014\202\304\343\007
\366\152\345\045\040\137\060\312\301\206\071\021\333\310\303\151\167
\073\054\302\114\017\166\232\343\360\253\076\141\033\120\044\032
\300\034\361\031\360\021\105\266\245\030\002\233\327\143\114\160
\214\07\243\003\103\134\271\135\062\240\015\157\377\131\126\276
\335\237\162\303\133\035\337\214\133\163\345\014\061\154\222\262
\012\243\141\210\020\002\250\220\032\257\332\374\272\164\156\377
\301\126\240\144\330\325\113\125\256\237\134\152\166\226\330\163
\147\207\373\115\171\134\356\151\131\126\163\020\373\212\251\375\236
\275\066\070\111\111\120\364\016\024\360\351\207\270\077\247\117
\172\132\216\171\132\224\233\344\273\150\122\204\254\154\351\163\230
\160\125\162\062\237\106\423\053\112\265\315\040\142\344\072\172
\147\143\235\226\334\155\256\227\354\374\237\166\126\210\056\146
\317\133\266\311\124\260\327\005\272\341\047\057\223\273\046\052
\242\223\260\003\336\216\276\035\100\243\271\066\217\076\202\032
\032\136\210\352\120\370\131\342\203\106\051\013\343\104\134\341
\225\256\151\212\203\024\157\227\256\201\137\150\357\231\122\276
\265\347\334\111\77\370\372\023\107\026\114\314\155\010\100\347\213
\170\157\120\202\104\120\077\146\006\212\253\103\204\126\112\017
\040\055\206\016\365\322\333\322\172\212\113\315\245\350\116\361
\136\046\045\011\134\324\176\322\366\176\041\127\327\047\274
\025\127\114\244\106\301\340\203\036\014\114\115\037\117\006\031
\342\371\250\364\072\202\241\262\171\031\171\326\255\157\172\047
\220\093\244\352\044\207\077\331\275\331\351\362\137\120\111\034
\356\354\327\056
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “Staat der Nederlanden EV Root CA”
# Issuer: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Serial Number: 10000013 (0x98968d)
# Subject: CN=Staat der Nederlanden EV Root CA,O=Staat der Nederlanden,C=NL
# Not Valid Before: Wed Dec 08 11:19:29 2010
# Not Valid After : Thu Dec 08 11:10:28 2022
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Staat der Nederlanden EV Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\342\176\301\117\333\202\301\300\246\165\265\005\276\075\051
\264\355\333\273
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\374\006\257\173\350\032\361\232\264\350\322\160\037\300\365\272
END
CKA_ISSUER MULTILINE_OCTAL
\060\130\061\013\060\011\006\003\125\004\006\023\002\116\114\061
\036\060\034\006\003\125\004\012\014\025\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\061
\051\060\047\006\003\125\004\003\014\040\123\164\141\141\164\040
\144\145\162\040\116\145\144\145\162\154\141\156\144\145\156\040
\105\126\040\122\157\157\164\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\000\230\226\215
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:00:14:55:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\112\066\101\006\003\125\004\006\023\002\125\123\061
# Trust for "IdenTrust Commercial Root CA 1"
# Issuer: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:c8:44:b5:00:00:00:02
# Subject: CN=IdenTrust Commercial Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 18:12:23 2014
# Not Valid After : Mon Jan 16 18:12:23 2034
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Commercial Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "IdenTrust Public Sector Root CA 1"

# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END

CKA_ID UTF8 "0"

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END
\252\144\231\330\132\376\210\000\130\245\231\261\043\124\043
\267\152\035\040\127\345\001\142\101\027\232\011\333\165\313\156
\124\220\165\376\032\232\273\201\012\320\335\327\367\011\320\133\162
\025\344\036\011\152\075\063\363\041\232\346\025\176\255\121\135
\015\202\355\175\102\303\021\375\363\030\232\010\325\101\326\134\016
\041\151\156\200\141\016\025\300\270\317\305\111\012\223\124\142
\072\314\324\056\070\000\035\366\065\375\037\157\270\200\150\230\075
\115\240\312\100\145\322\163\174\365\213\331\012\225\077\330\007
\043\155\032\321\052\044\031\331\205\263\302\273\357\170\156\251\130
\321\043\323\070\233\355\162\045\177\135\261\163\160\320\177\006
\227\011\204\051\120\041\303\372\136\377\163\254\240\343\211\270
\034\161\025\306\133\061\177\022\334\341\155\233\257\347\350\237
\165\170\114\253\106\073\232\136\277\005\030\135\115\025\074\026
\232\031\120\004\043\262\223\157\145\213\122\137\074\130\004\050
\045\300\146\141\061\176\271\340\165\271\032\250\201\326\162\027
\263\305\003\061\065\201\170\170\342\340\351\060\214\177\200\337
\130\337\074\272\204\47\226\342\200\064\155\343\230\323\144\047\254
\110\176\051\167\134\036\045\141\045\370\205\014\145\372\304\062
\057\245\230\005\344\337\001\137\047\260\262\306\202\270\006\203\137
\371\217\171\334\037\315\355\257\259\016\353\033\333\055\344\172
\347\002\342\225\135\374\151\360\123\151\141\225\165\171\101\136
\125\346\070\034\224\251\131\063\236\310\161\164\171\177\121\111
\266\310\152\270\006\301\152\070\303\156\236\341\067\026\352\005
\142\114\133\022\107\355\247\264\263\130\260\371\113\63\177\022
\150\011\066\161\136\015\155\370\116\107\373\326\205\356\030\130\100
\031\244\035\247\371\113\103\067\334\150\132\117\173\353\302\144
\164\336\264\029\333\136\041\124\020\032\057\034\327\227\161\124\220
\216\331\040\023\125\053\177\253\217\342\352\060\274\120\067\357
\361\107\265\175\174\054\004\354\150\235\264\111\104\020\364\162
\113\034\144\134\373\347\346\153\220\035\151\175\151\375\000\126\245
\267\254\266\255\267\312\076\001\135\234
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "IdenTrust Public Sector Root CA 1"
# Issuer: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Serial Number:0a:01:42:80:00:00:01:45:23:cf:46:7c:00:00:00:02
# Subject: CN=IdenTrust Public Sector Root CA 1,O=IdenTrust,C=US
# Not Valid Before: Thu Jan 16 17:53:32 2014
# Not Valid After: Mon Jan 16 17:53:32 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CAK_MODIFIABLE CK_BBOOL CK_FALSE
CAK_LABEL UTF8 "IdenTrust Public Sector Root CA 1"
CAK_CERT_SHA1_HASH MULTILINE_OCTAL
\272\051\101\140\167\230\077\364\363\357\362\061\005\073\056\035\2
\155\115\105\037
END
CAK_CERT_MD5_HASH MULTILINE_OCTAL
\067\006\245\260\374\211\235\272\364\153\214\032\144\315\325\2
END
CAK_ISSUER MULTILINE_OCTAL
\060\115\061\13\060\01\125\004\006\023\002\125\123\061
\022\060\02\006\003\125\004\012\23\011\11\144\145\156\124\162
\165\163\164\061\052\060\050\006\003\125\004\003\023\04\11\144
\145\156\124\162\165\163\164\040\120\165\142\154\151\143\040\123
\145\143\164\157\162\040\122\157\164\040\103\101\040\061
END
CAK_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\012\001\102\200\000\000\001\105\043\317\106\174\000\000
\000\002
END
CAK_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CAK_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CAK_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CAK_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Entrust Root Certification Authority - G2"
#
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number: 1246989352 (0xa538c28)
# Subject: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After : Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CAK_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CAK_TOKEN CK_BBOOL CK_TRUE
CAK_PRIVATE CK_BBOOL CK_FALSE
CAK_MODIFIABLE CK_BBOOL CK_FALSE
CAK_LABEL UTF8 "Entrust Root Certification Authority - G2"
CAK_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CAK_SUBJECT MULTILINE_OCTAL
\060\115\061\013\060\01\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\010\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004

Open Source Used In cnBR Operations Hub 22.2 16886
Open Source Used in cnBR Operations Hub 22.2. 16888
# Trust for "Entrust Root Certification Authority - G2"
# Issuer: CN=Entrust Root Certification Authority - G2,OU="(c) 2009 Entrust, Inc. - for authorized use only",O=Entrust, Inc.,C=US
# Serial Number: 1246989352 (0x4a538c28)
# Not Valid Before: Tue Jul 07 17:25:54 2009
# Not Valid After: Sat Dec 07 17:55:54 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
Open Source Used In cnBR Operations Hub 22.2  16990

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Entrust Root Certification Authority - EC1"
#
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only".OU=See www.entrust.net/legal-terms.O="Entrust, Inc.".C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only".OU=See www.entrust.net/legal-terms.O="Entrust, Inc.".C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\020\277\061\013\000\000\003\125\004\006\003\125\004\012\002\15\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\156\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\000\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\156\131\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\016\003\012\005\004\030\23\025\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\277\061\013\000\000\003\125\004\006\003\125\004\012\002\15\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\156\057\154\145\147\141\154\055\164\145\162
\155\163\061\071\060\067\000\003\125\004\013\023\060\050\143\051
\040\062\060\061\062\040\105\156\164\162\156\131\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\016\003\012\005\004\030\23\025\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END

Open Source Used In cnBR Operations Hub 22.2  16990
Open Source Used In cnBR Operations Hub 22.2 16992

```
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Entrust Root Certification Authority - EC1"
# Issuer: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:a6:8b:79:29:00:00:00:00:50:d0:91:f9
# Subject: CN=Entrust Root Certification Authority - EC1,OU="(c) 2012 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Tue Dec 18 15:25:36 2012
# Not Valid After : Fri Dec 18 15:55:36 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - EC1"
```

```
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\040\330\006\100\337\233\045\365\022\045\072\021\352\367\131\212
\353\024\265\107
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\266\176\035\360\130\305\111\154\044\073\075\355\230\030\355\0274
END
```
Certificate "CFCA EV ROOT"

Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
Serial Number: 407555286 (0x184accd6)
Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
Not Valid Before: Wed Aug 08 03:07:01 2012
Not Valid After : Mon Dec 31 03:07:01 2029

```
\0400\062\060\061\062\040\105\156\164\163\164\054\040\111
\156\143\056\040\055\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\063\060
\061\006\003\125\004\003\023\052\010\056\164\162\165\163\164\040
\122\157\151\156\141\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\105
\103\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\000\246\213\171\000\000\000\000\120\320\221\371
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

# Certificate "CFCA EV ROOT"

# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029

```
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "CFCA EV ROOT"
# Issuer: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Serial Number: 407555286 (0x184accd6)
# Subject: CN=CFCA EV ROOT,O=China Financial Certification Authority,C=CN
# Not Valid Before: Wed Aug 08 03:07:01 2012
# Not Valid After : Mon Dec 31 03:07:01 2029
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "CFCA EV ROOT"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\342\270\051\113\125\204\253\153\130\302\220\106\154\254\077\270
\071\172\204\203

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\164\341\266\355\046\172\172\104\060\063\224\253\173\047\201\060

CKA_ISSUER MULTILINE_OCTAL
\060\126\006\101\13\060\011\006\003\125\004\006\023\002\103\116\061
\060\060\056\006\003\125\004\012\014\047\103\150\151\156\141\040
\106\151\156\141\156\143\151\141\154\040\103\145\162\164\151\146
\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164
\171\061\025\060\023\006\003\125\004\003\014\014\103\106\103\101
\040\105\126\040\122\117\117\124

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\004\030\112\314\326

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After: Thu Dec 01 15:10:31 2039
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WiSeKey Global Root GB CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\13\060\011\100\003\12\25\004\006\02\23\002\103\110\061
\02\060\016\060\003\12\25\004\012\02\23\07\12\11\123\145\113\145
\17\061\042\060\040\006\003\12\25\040\13\02\31\117\11\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\10\060\046\006\003\12\25\004\003\02\30\37
\117\11\123\124\105\040\12\11\123\145\113\145\17\11\040\107\154
\157\142\141\154\040\12\15\157\164\040\107\10\2\040\103\101
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\155\061\13\060\011\100\003\12\25\004\006\02\23\002\103\110\061
\02\060\016\060\003\12\25\004\012\02\23\07\12\11\123\145\113\145
\17\061\042\060\040\006\003\12\25\040\13\02\31\117\11\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\10\060\046\006\003\12\25\004\003\02\30\37
\117\11\123\124\105\040\12\11\123\145\113\145\17\11\040\107\154
\157\142\141\154\040\12\15\157\164\040\107\10\2\040\103\101
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\261\040\12\16\360\205\207\106\263\370\043\032\366
\302\300
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\265\060\202\002\235\240\003\002\001\002\002\20\166
\261\104\12\164\360\205\207\106\263\370\043\032\366\302\300
\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060\155
\061\103\060\011\006\003\12\25\004\006\02\30\2\103\110\061\20\060
\016\060\003\12\25\004\012\02\23\07\12\11\123\145\113\145\171\061
\042\060\040\006\003\12\25\004\013\02\30\117\11\123\124\105\040
\106\157\165\156\144\141\164\151\157\156\040\105\156\144\157\162
\163\154\144\061\050\060\046\006\003\12\25\004\003\02\30\117\111
\12\124\105\040\12\11\123\145\113\145\171\040\107\154\157\142
\141\154\040\12\15\157\164\040\107\10\2\040\103\101\060\036\027
\015\061\064\061\062\060\061\061\065\060\060\063\062\132\027\015
\063\071\061\062\060\061\061\065\061\060\063\061\132\060\155\061
\013\060\011\006\003\12\25\004\006\02\30\2\103\110\061\20\060\016
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "OISTE WISeKey Global Root GB CA"
# Issuer: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed, O=WISeKey, C=CH
# Subject: CN=OISTE WISeKey Global Root GB CA,OU=OISTE Foundation Endorsed, O=WISeKey, C=CH
# Not Valid Before: Mon Dec 01 15:00:32 2014
# Not Valid After : Thu Dec 01 15:10:31 2039
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GB CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\017\371\100\166\030\323\327\152\113\230\360\250\065\236\014\375
\047\254\314\355
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\244\353\271\141\050\056\267\057\230\260\065\046\220\231\121\035
END

CKA_ISSUER MULTILINE_OCTAL
\06D\155\061\013\06D\011\100\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\023\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\102\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\261\040\122\164\360\205\207\106\263\370\043\032\366
\302\300
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SZAFIR ROOT CA2"

# Issuer: CN=SZAFIR ROOT CA2, O=Krajowa Izba Rozliczeniowa S.A., C=PL
# Subject: CN=SZAFIR ROOT CA2,O=Krajowa Izba Rozliczeniowa S.A.,C=PL
# Not Valid Before: Mon Oct 19 07:43:30 2015
# Not Valid After : Fri Oct 19 07:43:30 2035
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SZAFIR ROOT CA2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061\050\060\046\006\003\125\004\012\140\037\113\162\141\152\157\167\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040\103\001\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\013\060\011\006\003\125\004\006\023\002\120\114\061\050\060\046\006\003\125\004\012\140\037\113\162\141\152\157\167\141\040\111\172\142\141\040\122\157\172\154\151\143\172\145\156\151\157\167\141\040\123\056\101\056\061\030\060\026\006\003\125\004\003\014\017\123\132\101\106\111\122\040\122\117\117\124\040\103\001\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\076\212\135\007\354\125\322\062\325\267\343\266\137\001\135\055\334\344\326\344
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\162\060\020\002\132\240\003\002\001\002\002\024\076\121\135\007\354\125\322\062\325\267\343\266\137\001\135\055\334\344\326\344

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SZAFIR ROOT CA2"
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\151\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\200\061\013\060\011\006\003\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\151\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\125\351
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\322\260\202\003\327\222\240\003\002\001\002\002\020\041
\326\320\112\117\045\017\311\062\067\374\252\136\022\125\351\060
\015\006\001\105\206\110\206\367\150\001\001\155\050\000\060\201
\020\006\013\060\009\001\006\003\125\004\006\023\002\120\114\061\042
\060\040\006\003\125\004\012\023\031\125\156\151\172\145\164\157
\040\012\145\143\150\156\151\154\157\147\151\145\163\040
\101\056\016\107\040\064\050\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\061\044\060\020\006
\003\125\004\003\023\033\103\145\162\164\165\155\040\124\162\165
\163\164\145\144\040\116\145\164\167\157\162\153\040\103\101\040
\062\060\042\030\017\062\060\061\061\060\060\060\060\070\063
\001\006\060\015\006\011\052\206\110\020\063\367\015\001\001\015\005
\000\003\202\002\001\000\016\124\016\316\344\351\277\077\070\032\5
\211\132\304\002\214\113\373\114\305\024\027\055\213\117\123\153\020
\027\374\145\204\030\070\020\111\122\036\333\337\040\064\223\121\046\1157
\160\026\002\136\071\240\067\217\025\322\266\254\065\234\201\120\1024
\155\016\120\202\020\133\212\111\036\063\117\245\335\342\036\104\337
\011\131\364\133\167\013\067\351\213\040\036\370\12\116\056\130
\034\353\063\320\031\176\040\140\311\322\337\320\057\236\114\140\204
\170\075\041\144\326\373\101\037\030\017\347\311\165\161\275\275
\134\336\064\207\076\101\126\001\036\366\271\326\077\11\102\226\024
\057\336\232\035\132\271\112\161\065\072\260\137\161\011\115\136\343
\051\136\049\050\016\121\126\253\302\214\146\046\034\167\054\046
\166\065\212\153\024\271\151\240\370\107\324\022\227\021\042\343\242\111
\220\003\126\221\134\277\272\107\324\022\227\202\042\343\242\111
\224\154\347\267\224\113\272\055\244\332\063\213\114\246\043\377
\132\074\306\035\144\330\265\061\134\440\246\074\172\250\127\013\333
\355\114\032\131\363\131\165\161\174\143\244\027\157\114\121\070\0326
\344\137\073\273\066\201\052\344\020\110\171\130\063\073\370\033
\002\202\014\071\071\033\030\164\113\075\066\036\371\051\123\210
\150\133\250\104\031\041\360\247\350\201\150\054\350\223\066\264
\067\262\132\060\034\046\171\232\045\037\232\232\232\200\236\113\052
\077\373\243\232\376\163\062\161\130\233\263\306\162\234\121\120\047
\361\144\017\264\304\114\245\141\223\370\227\202\007\052\060\045
\251\271\131\016\127\037\057\150\314\055\176\365\340\176\017\202\225
\157\266\272\154\020\013\167\315\122\222\027\241\236\133\170\026
\075\105\334\063\162\335\041\146\312\231\132\313\110\054\046\375\015
\150\000\016\026\266\331\123\212\247\063\126\106\036\203\133\43
\134\002\312\054\330\157\112\007\331\131\106\033\200\065\362\2304
\247\031\157\236\101\020\203\165\346\225\213\140\274\355\035\022
\327\212\131\032\253\203\134\126\226\200\033\053\356\167\006\065\377\131
\344\356\077\023\141\356\333\332\055\205\360\315\253\236\220\030
\011\053\033\222\162\027\364\107\266\240\130\054\361\034\336
\013\050\010\152\137\073\360\166\143\373\314\006\054\246\306\342
\016\265\271\126\044\017

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Network CA 2"
# Issuer: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Subject: CN=Certum Trusted Network CA 2,OU=Certum Certification Authority,O=Unizeto Technologies S.A.,C=PL
# Not Valid Before: Thu Oct 06 08:39:56 2011
# Not Valid After : Sat Oct 06 08:39:56 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Network CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\323\335\110\076\053\277\114\005\350\257\020\365\372\166\046\317
\323\334\060\222
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\155\106\236\331\045\155\010\043\133\136\164\175\036\047\333\362
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\200\061\13\060\011\006\031\125\004\006\023\002\120\114
\061\042\060\040\006\003\125\004\012\023\031\125\156\151\172\145
\164\157\040\124\145\143\150\156\157\154\157\147\151\145\163\040
\123\056\101\056\061\047\060\045\006\003\125\004\013\023\036\103
\145\162\164\165\155\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\061\044\060
\042\006\003\125\004\003\023\033\103\145\162\164\165\155\040\124
\162\165\163\164\145\144\040\116\145\164\167\157\162\153\040\103
\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\326\320\112\117\045\017\311\062\067\374\252\136\022
\215\351
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:11:21 2015
# Not Valid After : Sat Jun 30 10:11:21 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\246\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\101\07\060\001\15\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\10\04\00\02\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\114\145
\155\151\143\040\141\156\144\040\122\145\161\14\143\150
\140\11\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\101\04\062\060\061\065
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\101\17\060\001\15\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\10\04\00\02\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\114\145
\154\040\122\145\161\143\142\134\150\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\101\04\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\013\060\02\003\363\240\003\002\001\002\002\001\000
\060\015\006\001\11\052\206\11\206\367\015\001\100\101\13\005\000\060
\201\246\060\11\060\001\11\006\003\125\004\006\023\002\107\222\061
\017\060\015\000\003\125\004\007\023\006\101\164\150\145\156\163
\061\104\060\01\02\006\003\125\004\012\023\073\110\145\154\154
\156\151\143\040\101\143\141\144\145\155\151\143\040\114\145
\150\040\122\145\161\143\142\134\150\111\156\163\164\151
\165\164\151\157\156\163\040\103\101\04\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\001\11\006\003\125\004\006\023\002\107\122
\061\101\17\060\001\15\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\10\04\00\02\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\114\145
\154\040\122\145\161\143\142\134\150\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\101\04\062\060\061\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END
CKA_ID UTF8 "0"
```
\034\023\001\001\377\004\005\060\003\001\001\377\006\016\006\003
\125\035\017\001\001\377\004\004\003\002\001\001\006\060\035\006\003
\125\035\016\004\026\000\004\024\016\015\025\147\100\010\011\025\165
\162\023\017\000\030\001\015\000\006\001\000\001\025\147\004\011
\026\011\010\063\015\000\001\010\013\005\000\000\03\020\002\000\010
\027\112\113\125\202\020\130\010\064\362\144\122\022\026\006\011\030
\136\032\154\102\020\075\257\024\056\106\036\026\061\037\014\035\012
\123\010\012\060\011\023\013\036\023\014\036\016\036\032\019\013
\112\026\125\334\241\010\022\024\032\111\017\013\010\163\144
\162\023\035\010\085\216\332\046\077\036\017\124\142\261\123\010
\063\020\012\060\023\276\346\121\134\330\023\012\111\113\123\412
\123\002\351\117\015\040\352\115\102\125\350\174\033\040\141
\323\030\072\234\167\362\270\022\036\150\037\037\112\327\632\055
\136\042\77\311\136\050\033\316\070\020\052\067\21\112\124\264\343
\011\154\025\026\023\377\221\122\264\047\170\021\021\147\134\116\116
\124\126\033\101\015\101\032\112\364\115\064\003\037\252\216\167\355\225
\147\122\344\261\030\052\025\030\077\152\024\043\035\002\242\024\342\210\405\012
\030\113\342\036\030\032\050\005\153\032\160\170\040\141\223\173\217
\003\062\040\051\015\010\054\004\030\226\024\010\152\277\112\013\036\223
\121\7\031\025\040\323\050\147\363\015\064\322\037\163\143\214\357\026
\260\025\024\041\010\052\370\035\022\035\162\264\357\370\053\037\030\24
\122\030\021\012\042\014\031\057\076\343\015\250\034\146\261\133\134
\137\033\026\032\024\131\016\041\031\024\025\331\071\154\273\039\030\033\165
\025\033\033\012\222\015\024\022\070\141\010\016\000\070\006\037\113\106\020\361
\025\276\212\052\013\040\073\112\053\021\017\1\172\64\151\237\111\020
\227\115\367\016\126\135\300\225\152\030\203\303\033\153\031\113\236
\052\033\107\023\276\026\032\163\030\045\350\037\020\033\271\332\371\026
\156\221\024\036\053\034\050\310\037\046\041\343\037\034\220\012\266\012
\174\009\072\020\042\027\43\151\170\211\013\012\016\010\017\057\243\025\117
\224\070\025\020\131\012\145\012\217\006\140\012\365
\155\047\033\600\022\173\321\033\026\055\031\013\035\110\041\213\070
\245\314\073\033\016\076\060\024\117\333\115\032\132\162\100\055\101
\172\027\035\026\112\065\211\026\71\013\251\174\206\177\125\115\203
\112\245\163\040\000\072\257\220\036\123\042\044\163\311\216\161\131
\173\270\063\032\326\217\231\076\035\022\105\022\013\356\324\253
\160\351\025\166\002\344\340\037\252\040\036\133\141\205\144\100
\251\220\227\015\255\123\322\132\035\207\152\000\022\71\145\142\264
\276\157\152\124\376\054\102\035\062\255\266\014\123\267\274
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Hellenic Academic and Research Institutions RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions RootCA 2015,O=Hellenic Academic and Research
Institutions Cert. Authority,L=Athens,C=GR
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Open Source Used In cnBR Operations Hub 22.2 17008
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040

# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\001\014\006\225\246\230\031\024\377\277\137\306\260\266\225\352
\051\351\022\246
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\001\014\006\225\246\230\031\024\377\277\137\306\260\266\225\352
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\246\061\013\060\001\11\006\003\125\004\006\023\002\010\7\122
\061\107\060\015\000\060\003\125\000\007\023\006\010\11\164\150\145\156
\163\061\104\060\012\006\003\125\004\012\023\073\10\145\154\154
\145\156\151\143\040\10\11\143\141\144\145\155\151\143\040\14\1156
\144\040\122\145\163\145\141\162\143\150\040\11\156\163\164\151
\164\165\164\151\157\156\163\040\10\145\162\146\056\040\10\11\165
\164\150\157\162\151\164\171\061\10\006\007\125\004\003
\023\006\11\10\145\154\154\145\156\151\143\040\10\11\143\141\144\145
\155\151\143\040\14\11\156\144\040\122\145\163\145\141\162\143\150
\040\11\156\163\164\151\164\165\164\151\157\156\163\040\122\157
\157\164\103\10\140\062\060\061\065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "Hellenic Academic and Research Institutions ECC RootCA 2015"
#
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
# Fingerprint (SHA-256):

# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\252\061\013\060\000\011\006\000\031\125\000\004\000\023\002\107\122
\061\17\060\015\000\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\1165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\151\143\141\144\145\155\151\143\040\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\252\061\013\060\000\011\006\000\031\125\000\004\000\023\002\107\122
\061\17\060\015\000\006\003\125\004\007\023\006\101\164\150\145\156
\163\061\104\060\102\006\003\125\004\012\023\073\110\145\154\154
\145\156\151\143\040\101\143\141\144\145\155\151\143\040\141\156
\144\040\122\145\163\145\141\162\143\150\040\111\156\163\164\151
\164\165\164\151\157\156\163\040\103\145\162\164\056\040\101\1165
\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003
\023\073\110\145\154\151\143\141\144\145\155\151\143\040\141\144\145
\155\151\143\040\141\156\144\040\122\145\163\145\141\162\143\150
\040\111\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\001\000

END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\303\060\202\002\112\240\003\002\001\002\002\001\000
\060\012\006\010\052\206\110\316\075\004\003\002\060\021\125\061
\013\060\011\006\003\125\004\006\023\002\107\122\061\017\060\015
\006\003\125\004\007\023\006\101\164\150\145\156\163\061\104\060
\012\006\003\125\004\012\023\073\110\145\154\143\156\151\143
\040\011\156\163\164\151\164\165\164\151\157\156\163\040\105\103
\103\040\122\157\157\164\103\101\040\062\060\061\065
END
Open Source Used In cnBR Operations Hub 22.2 17012

# Trust for "Hellenic Academic and Research Institutions ECC RootCA 2015"
# Issuer: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Serial Number: 0 (0x0)
# Subject: CN=Hellenic Academic and Research Institutions ECC RootCA 2015,O=Hellenic Academic and Research Institutions Cert. Authority,L=Athens,C=GR
# Not Valid Before: Tue Jul 07 10:37:12 2015
# Not Valid After : Sat Jun 30 10:37:12 2040
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hellenic Academic and Research Institutions ECC RootCA 2015"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL\237\361\161\215\222\325\232\363\175\164\227\264\274\157\204\150\013\272\266\146
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL\201\345\264\027\353\302\365\341\113\015\101\173\111\222\376\357
END
CKA_ISSUER MULTILINE_OCTAL\060\201\252\061\013\060\001\11\006\003\125\004\006\023\002\107\122\061\107\006\015\010\006\003\125\004\007\023\006\101\164\150\145\156\163\061\106\060\012\006\003\125\004\012\023\073\10\145\154\154\145\156\151\143\040\10\143\141\144\145\155\151\143\040\14\156\144\040\122\145\163\145\141\162\143\150\11\156\163\163\040\103\145\162\164\056\040\101\165\164\150\157\162\151\164\171\061\104\060\102\006\003\125\004\003\023\073\11\10\145\154\154\145\156\151\143\040\10\143\141\144\145\155\151\143\040\14\156\144\040\122\145\163\145\141\162\143\150\10\040\11\156\163\163\164\151\164\165\164\151\157\156\163\040\105\103\10\040\062\060\061\1065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL\002\001\100
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "ISRG Root X1"
#
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\110\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\110\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\202\020\317\260\322\100\343\131\104\143\340\273\143
\202\213\000

END

CKA_VALUE MULTILINE_OCTAL
\060\020\020\005\153\060\202\000\123\240\003\002\001\002\002\021\000
\202\202\203\17\260\322\100\343\131\104\143\340\273\143\202\213\000
\060\015\006\011\052\206\110\206\367\015\001\001\013\005\000\060
\117\061\130\060\011\006\003\125\004\006\023\002\125\123\061\051
\060\047\006\003\125\004\012\023\040\111\156\164\045\162\156\145
\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003\125
\004\003\023\14\111\123\122\107\040\122\157\157\164\040\130\061
\060\036\027\015\061\065\050\066\060\064\061\061\060\064\063\070
\132\202\015\063\065\060\066\060\064\061\060\064\063\070\0132
\060\017\061\130\060\011\110\006\003\125\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\14\111\123\122\107\040\122\157\157\164\040\130
\061\060\202\020\020\020\020\020\020\020\020\020\020\020\020
\001\001\001\050\000\003\02\002\001\07\000\060\020\002\012\002\020
\001\000\025\350\044\016\034\024\067\363\033\233\236\053\017\050\034
\207\276\334\267\337\070\220\214\156\074\346\127\240\170\367\165
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"

# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"

# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"

# Trust for "ISRG Root X1"
# Issuer: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X1,O=Internet Security Research Group,C=US
# Not Valid Before: Thu Jun 04 11:04:38 2015
# Not Valid After : Mon Jun 04 11:04:38 2035
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X1"
# Certificate "AC RAIZ FNMT-RCM"

# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After: Tue Jan 01 00:00:00 2030
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\061\060\047\006\003\125\004\012\023\040\111\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\102\05\060\023\000\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\020\170\260\132\100\343\131\104\143\340\273\143
\202\213\000
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "AC RAIZ FNMT-RCM"
# Issuer: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Subject: OU=AC RAIZ FNMT-RCM,O=FNMT-RCM,C=ES
# Not Valid After : Tue Jan 01 00:00:00 2030

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\354\120\065\007\262\025\304\225\142\031\342\250\232\133\102\231\054\114\054\040
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\342\011\004\264\323\275\321\240\024\375\032\322\107\304\127\035
END
CKA_ISSUER MULTILINE_OCTAL
\060\073\061\013\060\003\125\004\006\023\002\105\123\061\021\060\017\006\003\125\004\012\014\010\106\116\115\124\055\122\103\115\061\031\060\027\006\003\125\004\013\014\020\101\103\040\122\101\111\132\040\106\116\115\124\055\122\103\115
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\017\135\223\215\060\147\060\310\006\035\032\307\124\204\151\007
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\001\110\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\137\231\277\214\012\071\342\360\170\212\103
\346\226\066\133\312
END
CKA_VALUE MULTILINE_OCTAL
\060\202\003\101\060\202\002\051\124\000\300\002\001\002\002\023\006
\154\237\137\231\277\214\012\071\342\360\170\212\103\134\46\226\066
\133\12\060\015\006\001\015\206\110\206\367\015\001\001\013\005
\000\060\071\061\013\060\011\106\003\012\050\004\006\023\002\125\123
\011\061\017\060\015\006\003\012\050\004\012\023\006\101\155\141\172\157
\156\061\031\060\027\006\003\012\050\004\003\023\020\101\155\141\172
\157\156\040\122\157\157\164\040\103\101\040\061\006\036\027\015
\106\165\060\065\063\026\006\060\060\060\060\060\060\132\027\015\063
\070\060\060\101\060\067\060\060\060\060\060\060\060\132\060\071\061\013
\060\060\110\006\003\125\004\006\023\002\125\123\061\107\060\015\006
\003\125\004\012\023\006\101\155\141\172\157\156\061\031\060\027
\006\060\03\125\004\003\023\020\101\115\141\172\157\156\040\122\157
\157\164\040\010\101\104\061\060\020\001\014\02\060\15\060\11\052
\206\012\006\036\150\101\010\001\005\000\003\020\020\01\017\000\060
\202\000\101\12\002\02\001\001\000\026\217\020\001\161\132\170\325\343
\116\125\107\200\120\164\175\156\330\327\210\166\364\231\150\367
\121\041\040\371\164\204\001\057\254\000\020\055\063\223\240\033\172
\011\626\244\320\066\272\001\276\215\333\110\310\007\027\066\114
\364\356\210\043\307\076\353\067\365\265\031\037\011\115\0260\033
\327\271\166\070\035\141\123\624\443\376\202\066\245\345\112\126\344
\110\341\371\135\264\026\372\164\332\234\233\065\071\105\132\260
\040\120\006\014\172\320\200\262\246\371\125\354\107\031\127\120
\070\007\033\242\207\071\130\370\027\232\251\371\110\147\060\022
\356\224\170\136\157\211\124\121\130\006\020\061\146\241\105\146\272
\124\353\243\303\221\137\110\334\377\321\135\006\055\175\055\164
"\160\065\327\210\044\367\236\034\131\156\273\163\207\027\362\062
\106\050\270\103\372\267\035\252\312\264\043\262\370\044\016\055\113
\367\161\134\130\151\177\353\225\023\313\070\212\256\120\070\157
\333\373\195\12\023\305\307\036\124\341\167\340\147\310\172\34
\207\043\326\077\100\040\177\040\200\304\200\114\076\073\044\046
\216\004\256\154\323\310\252\015\002\030\001\124\312\102\066
\100\060\017\006\003\125\035\023\001\001\137\004\005\060\003\001
\001\137\060\016\060\000\312\150\035\170\011\001\377\004\004\003\002
\001\120\060\003\035\000\125\035\160\040\026\004\002\24\040\030\14
\205\064\354\274\014\242\224\056\010\131\234\037\262\020\116\012
\010\060\015\006\011\052\206\110\206\367\150\011\001\130\050\000
\003\020\011\001\000\230\362\067\132\112\120\241\032\305\166\111\21
\050\040\066\043\016\256\346\050\052\273\352\370\224\256\110\244\060
\177\033\374\044\215\113\264\310\024\212\273\066\266\361\172\160\310
\123\223\314\010\050\034\232\045\317\043\244\371\133\306\041\123\174
\205\011\255\116\232\165\072\302\013\152\211\170\166\104\107\030
\145\154\215\101\216\073\177\232\133\364\265\247\120\327\005\054
\067\350\030\113\255\51\141\240\002\156\365\362\360\305\262\355
\133\267\334\372\224\134\167\236\023\245\177\122\255\225\362\370
\223\073\336\215\134\133\321\132\122\133\140\257\024\367\113\357
\243\373\237\100\225\155\061\124\374\102\232\307\106\037\043\255
\331\017\110\160\232\323\116\51\70\161\321\162\103\064\165\156\127
\131\020\020\124\046\140\051\137\043\030\102\261\216\210\103\245\324
\344\133\010\133\034\034\021\103\350\130\051\162\142\241\251\135\136
\010\324\220\256\270\030\160\024\302\320\125\362\206\366\304\322
\103\167\146\141\100\271\350\101\327\227\170\140\003\156\112\162
\256\245\321\175\272\020\236\206\154\033\212\271\131\063\370\353
\304\220\276\361\127
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 1"
# Issuer: CN=Amazon Root CA 1,O=Amazon,C=US
# Subject: CN=Amazon Root CA 1,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sun Jan 17 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "Amazon Root CA 2"

# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\06\07\01\10\17\06\01\01\00\06\00\03\12\50\04\00\06\02\30\02\12\51\23\06\10\15\51\41\17\21\56
\06\10\03\06\00\02\70\06\00\03\12\50\04\00\03\02\30\02\01\15\51\41\17\21\57
\15\60\04\12\22\15\71\57\16\40\04\10\31\01\04\00\06\1
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\06\07\01\06\10\13\06\00\11\00\06\00\03\12\50\04\00\06\02\30\02\12\51\23\06
\01\70\06\01\05\06\00\03\12\50\04\01\22\02\30\06\10\15\51\41\17\21\57\15

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CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 2"
# Issuer: CN=Amazon Root CA 2,O=Amazon,C=US
# Subject: CN=Amazon Root CA 2,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\132\214\357\105\327\246\230\131\166\172\214\213\104\226\265\170
\317\107\113\032
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\310\345\215\316\250\052\134\174\236\046\277\146
END
CKA_ISSUE MULTILINE_OCTAL
\060\071\061\013\060\001\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\010\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\322\226\065\206\237\012\017\345\206\170\370
\133\046\273\212\067
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# # Certificate "Amazon Root CA 3"
#
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
06007106101306001100600031250040060230021125123061
01706001500600031250040120230061011155141172157156
061101060027006000312500400302302010111551141172157
1560401221157157164040103101040063
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
06007106101306001100600031250040060230021125123061
01706001500600031250040120230061011155141172157156
061101060027006000312500400302302010111551141172157
1560401221157157164040103101040063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
06007106101306001100600031250040060230021125123061
01706001500600031250040120230061011155141172157156
061101060027006000312500400302302010111551141172157
1560401221157157164040103101040063
END

CKA_VALUE MULTILINE_OCTAL
06007106113324000300200111332400030020011002002023006
15423732516422706611461077073013232331350
\2363166003\362112

END

CKA_ISSUER_MULTILINE_OCTAL
06007106101306001100600031250040060230021125123061
01706001500600031250040120230061011155141172157156
061101060027006000312500400302302010111551141172157
1560401221157157164040103101040063
END

CKA_SERIAL_NUMBER_MULTILINE_OCTAL
06007106101306001100600031250040060230021125123061
01706001500600031250040120230061011155141172157156
061101060027006000312500400302302010111551141172157
1560401221157157164040103101040063
END

CKA_VALUE_MULTILINE_OCTAL
06007106113324000300200111332400030020011002002023006
15423732516422706611461077073013232331350
\2363166003\362112

END

CKA_VALUE_MULTILINE_OCTAL
06007106113324000300200111332400030020011002002023006
15423732516422706611461077073013232331350
\2363166003\362112

END

CKA_VALUE_MULTILINE_OCTAL
06007106113324000300200111332400030020011002002023006
15423732516422706611461077073013232331350
\2363166003\362112

END

CKA_VALUE_MULTILINE_OCTAL
06007106113324000300200111332400030020011002002023006
15423732516422706611461077073013232331350
\2363166003\362112

END

CKA_VALUE_MULTILINE_OCTAL
06007106113324000300200111332400030020011002002023006
15423732516422706611461077073013232331350
\2363166003\362112

END

CKA_VALUE_MULTILINE_OCTAL
06007106113324000300200111332400030020011002002023006
15423732516422706611461077073013232331350
\2363166003\362112

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Amazon Root CA 3"
# Issuer: CN=Amazon Root CA 3,O=Amazon,C=US
# Subject: CN=Amazon Root CA 3,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After: Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\071\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\023\006\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\020\114\051\103\345\161\173\173
\054\310\032\301\016
END
CKA_VALUE MULTILINE_OCTAL
\060\020\001\136\206\020\202\001\170\240\003\002\001\002\002\023\006
\154\237\327\301\273\020\114\051\103\345\161\173\173\054\310\032
\301\016\060\012\006\010\052\206\110\316\075\004\003\003\060\071
\061\013\060\11\006\003\125\004\006\023\002\125\123\061\107\060
\015\006\003\125\004\012\023\006\101\155\141\172\157\156\061\031
\060\027\006\003\125\004\003\023\020\101\155\141\172\157\156\040
\122\157\157\164\040\103\101\040\064\060\036\027\015\061\065\060
\065\062\060\060\060\060\060\060\132\027\015\064\060\060\065
\062\026\060\060\060\060\060\060\132\060\071\061\013\060\011\006
\003\125\004\006\023\002\125\123\061\107\060\015\006\003\125\004
\012\023\006\101\155\141\172\157\156\061\031\060\027\006\003\125
\004\003\023\020\101\155\141\172\157\156\040\103\101\040\064\060
\016\060\053\201\000\040\000\042\003\142\000\004\322\253\212\067
\117\243\123\157\376\301\212\173\113\250\173\106\113\143\260\142
# Trust for "Amazon Root CA 4"
# Issuer: CN=Amazon Root CA 4,O=Amazon,C=US
# Subject: CN=Amazon Root CA 4,O=Amazon,C=US
# Not Valid Before: Tue May 26 00:00:00 2015
# Not Valid After : Sat May 26 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Amazon Root CA 4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\055\033\333\010\161\041\322\000\350\143\275\232\047\373\360
\071\156\135\352\075\245\311\201\252\243\133\040\230\105\135\026
\333\375\350\020\015\55\343\234\340\333\275\137\204\142\363\160\144
\063\240\313\044\057\160\272\210\241\052\240\165\370\201\256\142
\006\304\201\333\071\156\051\260\036\372\056\134\243\102\060\100
\060\017\006\030\125\035\023\001\010\137\77\004\005\060\003\001\001
\377\060\016\006\003\125\035\017\001\000\137\77\004\004\003\002\001
\206\060\035\006\003\125\035\016\004\026\004\024\323\354\307\072
\145\156\134\341\332\166\022\126\373\234\363\206\155\127\345\201
\060\012\006\010\052\206\110\316\075\004\003\003\150\000\060
\145\002\060\072\213\041\361\275\176\021\255\320\357\130\226\057
\326\353\235\176\202\215\053\317\146\125\303\054\343\050\251\160
\012\107\016\360\067\131\022\377\055\231\224\050\116\052\117\065
\115\063\132\002\061\000\352\165\000\116\073\304\072\224\022\221
\311\130\106\235\041\023\162\247\210\234\212\344\114\112\333\226
\324\254\213\153\153\111\022\123\063\255\327\344\276\044\374\265
\012\166\324\245\274\020
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\274\047\323\353\027\215\006\152\151\132\355\211\107\264\315
END
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\366\020\204\007\326\370\273\147\230\014\302\342\104\302\353\256
\034\357\143\276
END

CKA_ISSUER MULTILINE_OCTAL
\060\071\016\101\306\001\110\060\033\125\004\006\023\002\125\123\061
\017\060\015\006\003\125\004\012\230\061\101\155\141\172\157\156
\061\031\060\027\006\003\125\004\003\023\020\101\155\141\172\157
\156\040\122\157\157\164\040\103\101\040\064

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Open Source Used In cnBR Operations Hub 22.2  17031

END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\023\006\154\237\327\301\273\302\114\051\103\345\161\173\173\054\310\032\301\016
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Symantec Class 1 Public Primary Certification Authority - G6"
#
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\224\061\013\066\011\006\003\125\004\006\023\002\125\123\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156\164\145\143\040\103\157\162\157\162\141\164\151\157\156\061\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153\061\105\060\013\006\003\125\004\003\023\074\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\066
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\066\011\006\003\125\004\006\023\002\125\123\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156\164\145\143\040\103\154\141\163\163\040\061\040\120\165\142\154\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107\066
END

Open Source Used In cnBR Operations Hub 22.2  17031
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022

# Trust for "Symantec Class 1 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 1 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After: Tue Dec 01 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 1 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\177\141\036\051\221\153\123\202\373\162\347\104\331\215\303
\314\123\155\144
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\057\250\264\332\366\144\113\036\202\371\106\075\124\032\174\260
END
CKA_ISSUER_MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\066\003\125\004\012\023\024\123\171\155\141\156
\164\145\134\040\013\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\013\030\006\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\013\154\141\163\163\040\061\040\120\165\162\154
\151\143\040\120\162\151\155\141\162\171\104\013\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\005\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\044\062\165\362\035\057\322\011\063\367\264\152\312\320
\363\230
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Symantec Class 2 Public Primary Certification Authority - G6"
#
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Network,O=Symantec Corporation,C=US
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"

CKA_SUBJECT MULTILINE_OCTAL
\060\020\011\022\040\061\013\060\000\011\006\000\03\125\000\04\000\023\002\023\002\125\003\12
\061\013\035\060\023\000\063\125\000\04\012\023\024\012\171\155\141\156
\164\145\143\040\010\03\157\162\160\157\162\141\164\151\157\156\006\061
\037\060\035\000\063\125\000\04\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\165\164\167\157\162\153
\061\110\050\010\03\000\03\125\000\04\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\012\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\020\011\022\040\061\013\060\000\011\006\000\03\125\000\04\000\023\002\023\002\125\003\12
\061\013\035\060\023\000\063\125\000\04\012\023\024\012\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\006\061
\037\060\035\000\063\125\000\04\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\165\164\167\157\162\153
\061\110\050\010\03\000\03\125\000\04\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\012\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\04\02\236\037\04\067\036\164\135\374\227\377\227\310\261\377\101
END

CKA_VALUE MULTILINE_OCTAL
\060\020\011\022\040\061\013\060\000\011\006\000\03\125\000\04\000\023\002\023\002\125\003\12
\061\013\035\060\023\000\063\125\000\04\012\023\024\012\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\006\061
\037\060\035\000\063\125\000\04\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\165\164\167\157\162\153
\061\110\050\010\03\000\03\125\000\04\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\012\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END

Open Source Used In cnBR Operations Hub 22.2 17035
Open Source Used in cnBR Operations Hub 22.2 17036
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
# For Email Distrust After: Wed Aug 31 00:00:00 2022
CKA_NSS_EMAIL_DISTRUST_AFTER MULTILINE_OCTAL
\062\062\060\070\063\061\060\060\060\060\060\060\060\060\132
END

# Trust for "Symantec Class 2 Public Primary Certification Authority - G6"
# Issuer: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Subject: CN=Symantec Class 2 Public Primary Certification Authority - G6,OU=Symantec Trust
# Not Valid Before: Tue Oct 18 00:00:00 2011
# Not Valid After : Tue Dec 01 23:59:59 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Symantec Class 2 Public Primary Certification Authority - G6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\100\263\061\240\351\277\350\125\274\071\223\312\160\117\116\302
\121\324\035\217
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\175\013\203\345\373\174\255\007\117\040\251\265\337\143\355\171
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\224\061\013\060\011\006\003\125\004\006\023\002\125\123
\061\035\060\033\060\003\125\004\012\023\024\123\171\155\141\156
\164\145\143\040\103\157\162\160\157\162\141\164\151\157\156\061
\037\060\035\006\003\125\004\013\023\026\123\171\155\141\156\164
\145\143\040\124\162\165\163\164\040\116\145\164\167\157\162\153
\061\105\060\103\060\003\125\004\003\023\074\123\171\155\141\156
\164\145\143\040\103\154\141\163\163\040\062\040\120\165\142\154
\151\143\040\120\162\151\155\141\162\171\040\103\145\162\164\151
\146\151\143\141\164\151\157\156\040\101\165\164\150\157\162\151
\164\171\040\055\040\107\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\144\202\236\374\067\036\164\135\374\227\377\227\310\261
\377\101
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "D-TRUST Root CA 3 2013"
#
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfeedac)
# Subject: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\015\006\010\013\030\060\011\000\060\003\125\004\006\023\002\104\010\050\061
\025\060\023\006\003\125\004\012\014\014\014\050\055\124\162\165\163
\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\003\017\335\254
END

CKA_VALUE MULTILINE_OCTAL
\060\020\004\161\060\020\002\366\240\003\002\001\002\002\003\017
\335\254\060\015\006\061\015\052\206\110\206\367\015\005\001\001\013\005
\000\060\010\056\010\030\060\011\006\003\125\004\006\023\002\104\105
\061\025\060\023\006\003\125\004\012\014\014\014\050\055\124\162\165\163
\163\164\040\107\155\142\110\061\037\060\035\006\003\125\004\003\014
\026\104\055\124\122\125\123\124\040\122\157\157\164\040\103\101
\040\063\040\062\060\061\063
END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "D-TRUST Root CA 3 2013"
# Issuer: CN=D-TRUST Root CA 3 2013,O=D-Trust GmbH,C=DE
# Serial Number: 1039788 (0xfddac)
# Not Valid Before: Fri Sep 20 08:25:51 2013
# Not Valid After : Wed Sep 20 08:25:51 2028
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "D-TRUST Root CA 3 2013"
# Certificate "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"

# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):

% CKCLASS CKA_OBJECT_CLASS CKO_CERTIFICATE
% CKA_TOKEN CKA_BBOOL C_TRUE
% CKA_PRIVATE CKA_BBOOL C_FALSE
% CKA_MODIFIABLE CKA_BBOOL C_FALSE
% CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
% CKA_CERTIFICATE_TYPE CKA_CERTIFICATE_TYPE CKC_X_509
% CKA_SUBJECT MULTILINE_OCTAL
\060\020\322\061\013\060\001\1\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\012\111\124\101\113\061\055
\060\053\060\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\040\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\140\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END

# CKA_ID UTF8 "0"

% CKA_ISSUER MULTILINE_OCTAL
\060\020\322\061\013\060\001\1\006\003\125\004\006\023\002\124\122
\061\030\060\026\006\003\125\004\007\023\017\107\145\142\172\145
\040\040\055\040\113\157\143\141\145\154\151\061\102\060\100\006\003
\125\004\012\023\071\124\165\162\153\151\171\145\040\102\151\154
\151\155\163\145\154\040\166\145\040\124\145\153\156\157\154\157
\152\151\153\040\101\162\141\163\164\151\162\155\141\040\113\165
\162\165\155\165\040\055\040\124\125\012\111\124\101\113\061\055
\060\053\060\003\125\004\013\023\044\113\141\155\165\040\123\145
\162\164\151\146\151\153\141\163\171\157\156\040\115\145\162\153
\145\172\151\040\055\040\113\141\155\165\040\123\115\061\066\060
\064\040\003\125\004\003\023\055\124\125\102\111\124\101\113\040
\113\141\155\165\040\123\115\040\123\123\140\040\113\157\153\040
\123\145\162\164\151\146\151\153\141\163\151\040\055\040\123\165
\162\165\155\040\061
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
# Issuer: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Serial Number: 1 (0x1)
# Subject: CN=TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1,OU=Kamu Sertifikasyon Merkezi - Kamu SM,O=Turkiye Bilimsel ve Teknolojik Arastirma Kurumu - TUBITAK,L=Gebze - Kocaeli,C=TR
# Not Valid Before: Mon Nov 25 08:25:55 2013
# Not Valid After : Sun Oct 25 08:25:55 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TUBITAK Kamu SM SSL Kok Sertifikasi - Surum 1"
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE

# Certificate "GDCA TrustAUTH R5 ROOT"

# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY CO.,LTD.",C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\060\060\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\142\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\062\060\060\060\060\003\125\004\012\014\051\107\125\101\116\107\040
\104\117\116\107\040\103\105\122\124\111\106\111\103\101\124\105
\040\101\125\124\110\117\122\111\124\131\040\103\117\056\054\114
\124\104\056\061\037\060\035\006\003\125\004\003\014\026\107\104
\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\175\011\227\376\360\107\352\172
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\210\060\202\003\160\240\003\002\001\002\002\010\175
\011\227\376\360\107\352\172\060\015\060\011\052\206\110\206\367
\015\001\001\103\005\000\060\142\061\013\060\011\006\003\125\004
\006\023\002\010\116\062\060\060\060\003\125\004\012\014\051
\107\125\101\116\107\040\104\117\116\107\040\103\105\122\124\111
\106\111\103\101\124\105\040\101\125\124\110\117\122\111\124\131
\040\101\137\056\054\114\124\104\056\061\037\060\035\006\003\125
\004\003\014\026\107\104\103\101\040\124\162\165\163\164\101\125\124\110\040\122\065\040
\122\117\117\124
END

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Open Source Used In cnBR Operations Hub 22.2 17045
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.".,C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.".,C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
# Trust for "GDCA TrustAUTH R5 ROOT"
# Issuer: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.".,C=CN
# Serial Number:7d:09:97:fe:f0:47:ea:7a
# Subject: CN=GDCA TrustAUTH R5 ROOT,O="GUANG DONG CERTIFICATE AUTHORITY
# CO.,LTD.".,C=CN
# Not Valid Before: Wed Nov 26 05:13:15 2014
# Not Valid After : Mon Dec 31 15:59:59 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GDCA TrustAUTH R5 ROOT"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
# Certificate "TrustCor RootCert CA-1"
#
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Trust for "TrustCor RootCert CA-1"
# Issuer: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:da:9b:ec:71:f3:03:b0:19
# Subject: CN=TrustCor RootCert CA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:16 2016
# Not Valid After : Mon Dec 31 17:23:16 2029
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\377\275\315\347\202\310\103\136\074\157\046\206\134\312\250\072
\105\133\303\012
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\156\205\361\334\032\000\032\042\232\526\262\262\254\153\067\005\105
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\103\060\011\006\003\125\004\100\123\023\002\120\010
\061\170\060\115\000\060\031\125\004\100\123\014\156\141\155
\141\061\024\060\022\106\003\125\100\007\101\013\120\141\156\141
\155\141\040\103\151\164\171\161\014\044\100\042\100\003\125\004\012
\104\140\133\124\162\165\163\164\103\157\162\200\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\1047\060
\045\100\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\140\013\145\162\165\164\151\146\151\143\141\164\145\141\040\101\165\164
\150\151\162\151\164\171\016\037\106\003\125\004\100\030\104
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\201\100\003\132\233\354\161\363\003\260\031
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "TrustCor RootCert CA-2" #
# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:25:a1:df:ca:33:cb:59:02
# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:23 2016
# Not Valid After : Sun Dec 31 17:26:39 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor RootCert CA-2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\201\244\061\013\060\001\11\006\000\03\125\004\006\023\002\2\120\101
\061\017\060\015\006\000\03\125\004\010\014\006\120\141\156\141\155
\141\016\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\201\244\061\013\060\001\11\006\000\03\125\004\006\023\002\2\120\101
\061\017\060\015\006\000\03\125\004\010\014\006\120\141\156\141\155
\141\016\024\060\022\060\003\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\044\060\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\040\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\045\241\337\312\063\313\131\002
END
CKA_VALUE MULTILINE_OCTAL
\060\202\006\057\060\202\004\027\240\003\002\001\002\002\201\0045
# Trust for "TrustCor RootCert CA-2"

# Issuer: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

# Serial Number: 25:a1:df:ca:33:cb:59:02

# Subject: CN=TrustCor RootCert CA-2,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA

# Not Valid Before: Thu Feb 04 12:32:23 2016

# Not Valid After: Sun Dec 31 17:26:39 2034

# Fingerprint (SHA-256):

```
```

# Fingerprint (SHA1):

```
```

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST

CKA_TOKEN CK_BBOOL CK_TRUE

CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE

CKA_LABEL UTF8 "TrustCor RootCert CA-2"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL

```
```

CKA_CERT_MD5_HASH MULTILINE_OCTAL

```
27027615531312636112527114333240223121160060640307
224262034300
```

END

CKA_ISSUER MULTILINE_OCTAL

```
\060\020\244\061\013\060\001\11\006\003\125\004\006\023\002\120\101
\061\017\060\015\006\003\125\004\010\014\006\120\141\156\141\155
\141\061\024\060\001\125\004\007\014\013\120\141\156\141
\155\141\040\103\151\164\171\061\144\040\042\006\003\125\004\012
\014\033\124\162\165\163\164\103\157\162\120\123\171\163\164\145
\155\163\040\123\056\040\144\145\040\122\056\114\056\061\047\060
\045\006\003\125\004\013\014\036\124\162\165\163\164\103\157\162
\040\131\145\162\164\151\116\141\143\141\164\145\040\116\165\164
\150\157\162\151\164\171\061\037\060\035\006\003\125\004\003\014
\026\124\162\165\163\164\103\157\162\040\122\157\157\164\103\145
\162\164\040\103\101\055\062
```

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

```
\002\010\045\241\337\312\063\313\131\002
```

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
# Certificate "TrustCor ECA-1"

# Issuer: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Serial Number:00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1,OU=TrustCor Certificate Authority,O=TrustCor Systems S. de R.L.,L=Panama City,ST=Panama,C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After : Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"

END

Open Source Used In cnBR Operations Hub 22.2 17056
# Trust for "TrustCor ECA-1"
# Issuer: CN=TrustCor ECA-1, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama
City, ST=Panama, C=PA
# Serial Number: 00:84:82:2c:5f:1c:62:d0:40
# Subject: CN=TrustCor ECA-1, OU=TrustCor Certificate Authority, O=TrustCor Systems S. de R.L., L=Panama
City, ST=Panama, C=PA
# Not Valid Before: Thu Feb 04 12:32:33 2016
# Not Valid After: Mon Dec 31 17:28:07 2029
# Fingerprint (SHA-256):
# Fingerprint (SHA1): 58:D1:DF:95:95:67:6B:63:C0:F0:5B:1C:17:4D:8B:84:0B:C8:78:BD
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TrustCor ECA-1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\103\232\137\225\222\147\153\143\300\360\133\034\027\115\213\204 \013\310\170\275 END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com Root Certification Authority RSA"
# Issuer: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority RSA,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 17:39:39 2041
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority RSA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_CERT_SUBJECT MULTILINE_OCTAL
CKA_CRL_HASH MULTILINE_OCTAL
CKA_CRL_DATE MULTILINE_OCTAL
END
# Certificate "SSL.com Root Certification Authority ECC"

# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number: 75:e6:df:cb:c1:68:5b:a8
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After : Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com Root Certification Authority ECC"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\003\125\004\003\014\050\123\123\114\056\143\157\155\040\122\157
\157\164\040\010\163\164\157\157\162\151\164\171\040\122\123\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\173\054\233\323\026\200\062\231

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "SSL.com Root Certification Authority ECC"
# Issuer: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Subject: CN=SSL.com Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Fri Feb 12 18:14:03 2016
# Not Valid After: Tue Feb 12 18:14:03 2041
# Fingerprint (SHA-256):

# Certificate "SSL.com EV Root Certification Authority RSA R2"
# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number: 56:b6:29:cd:bc:78:f6
# Subject: CN=SSL.com EV Root Certification Authority RSA R2, O=SSL Corporation, L=Houston, ST=Texas, C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After: Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
060020102006011300600110060003125000400600230002125123
0611006001400600031250004010014000512491451701411163
01571560610300600260060003125000401001400071108157165163164
0401031571621660157162141164151157156061067060065
00690031250004003014056123114056143157155040105
12604001221571571640401031451621641511461151143141
16416151571560401011165164150157162151164171040122
123100140122062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
0020010201262660513150642741701366
END

CKA_VALUE MULTILINE_OCTAL
060020102006011300600110060003125000400600230002125123
0611006001400600031250004010014000512491451701411163
015715606103006002600600031250004012014001712311231114
0401031571621660157162141164151157156061067060065
00690031250004003014056123114056143157155040105
12604001221571571640401031451621641511461151143141
16416151571560401011165164150157162151164171040122
123100140122062
END

CKA_INDEX UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
062012010206011300600110060003125000400600230002125123
0611006001400600031250004010014000512491451701411163
015715606103006002600600031250004012014001712311231114
0401031571621660157162141164151157156061067060065
00690031250004003014056123114056143157155040105
12604001221571571640401031451621641511461151143141
16416151571560401011165164150157162151164171040122
123100140122062
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00200101262660513150642741701366
END

CKA_VALUE MULTILINE_OCTAL
060020102006011300600110060003125000400600230002125123
0611006001400600031250004010014000512491451701411163
015715606103006002600600031250004012014001712311231114
0401031571621660157162141164151157156061067060065
00690031250004003014056123114056143157155040105
12604001221571571640401031451621641511461151143141
16416151571560401011165164150157162151164171040122
123100140122062
END
OPEN SOURCE USED IN cnBR OPERATIONS HUB 22.2

# Trust for “SSL.com EV Root Certification Authority RSA R2”

# Issuer: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number: 56:b6:29:cd:34:bc:78:f6

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_MAYBE CK_BBOOL CK_FALSE

END
# Subject: CN=SSL.com EV Root Certification Authority RSA R2,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid Before: Wed May 31 18:14:37 2017
# Not Valid After : Fri May 30 18:14:37 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority RSA R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\164\072\360\122\233\320\062\240\364\112\203\315\324\272\251\173
\174\056\304\232
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\341\036\061\130\032\256\124\123\002\366\027\152\021\173\115\225
END
CKA_ISSUER_MULTILINE_OCTAL
\060\0\201\202\0\61\101\0\60\0\11\106\0\03\125\0\04\0\06\0\06\0\03\125\0\04\0\10\0\14\0\05\124\145\170\141\163
\061\0\200\0\60\0\16\0\06\0\03\125\0\04\0\07\0\14\0\07\110\157\165\163\164
\157\156\0\01\0\3\0\06\0\02\0\06\0\03\125\0\04\0\12\0\14\0\17\123\123\114
\0\40\10\3\157\162\160\157\162\141\164\151\157\156\0\61\0\67\0\60\0\65
\0\06\0\03\125\0\04\0\03\0\14\0\56\123\123\114\0\56\143\157\155\0\40\105
\126\0\40\122\157\157\164\0\40\10\3\145\162\164\151\146\151\143\141
\164\151\157\156\0\40\10\1\165\164\150\157\162\151\164\171\0\40\122
\123\10\0\40\122\0\62
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\0\10\126\266\0\51\131\0\64\127\14\0\366
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "SSL.com EV Root Certification Authority ECC"
#
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
# Fingerprint (SHA-256):
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "SSL.com EV Root Certification Authority ECC"
# Issuer: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Serial Number:2c:29:9c:5b:16:ed:05:95
# Subject: CN=SSL.com EV Root Certification Authority ECC,O=SSL Corporation,L=Houston,ST=Texas,C=US
# Not Valid After : Tue Feb 12 18:15:23 2041
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "SSL.com EV Root Certification Authority ECC"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL


\114\335\121\243\321\136\504\062\024\260\306\305\062\043\003\221
\307\106\102\155
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\131\123\042\145\203\102\001\124\300\316\102\271\132\174\362\220
END

CKA_ISSUER MULTILINE_OCTAL
\060\177\061\013\060\011\006\003\125\004\006\023\002\125\123\061
\016\060\014\006\003\125\004\010\014\005\124\145\170\141\163\061
\020\060\016\006\003\125\004\007\014\007\110\157\165\163\164\157
\156\061\030\060\026\060\003\125\004\012\014\017\123\123\114\040
\103\157\162\160\157\162\141\164\151\157\156\061\064\060\062\006
\003\125\004\003\014\053\123\123\114\056\143\157\155\040\105\126
\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\040\105\103
\103
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\054\051\234\133\026\355\005\225
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
Certificate "GlobalSign Root CA - R6"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After : Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\114\061\040\060\036\060\003\125\004\013\023\027\107\154\157
\142\115\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\060\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\004\003\023\121\107\154\157\142\141\154\123\151\147\156


```
\134\222\360\171\1367\234\204\272\164\055\141\001\040\176\176\321
\362\171\007\131\137\213\055\103\122\353\106\014\224\341\365\146
\107\171\167\325\241\133\037\255\044\067\313\105\132\116\240\104
\110\310\330\260\231\305\025\204\011\366\326\111\111\300\145\270
\346\032\161\156\240\250\361\202\350\105\076\154\326\002\327\012
\147\203\005\132\311\124\4020
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GlobalSign Root CA - R6"
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R6
# Not Valid Before: Wed Dec 10 00:00:00 2014
# Not Valid After: Sun Dec 10 00:00:00 2034
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root CA - R6"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\200\224\144\016\265\247\241\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\100\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\117\335\007\344\024\042\144\071\036\014\067\102\352\321\130\256
END
CKA_ISSUER MULTILINE_OCTAL
\060\114\061\040\060\036\006\003\125\004\013\023\027\107\154\157
\142\141\154\123\151\147\156\040\122\157\157\164\040\103\101\040
\055\040\122\066\061\023\060\021\006\003\125\004\012\023\012\107
\154\157\142\141\154\123\151\147\156\061\023\060\021\006\003\125
\100\003\023\012\107\154\157\142\141\154\123\151\147\156
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\016\105\346\027\003\203\063\303\205\145\110\346\377\105\121
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "OISTE WISeKey Global Root GC CA"

# Issuer: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Subject: CN=OISTE WISeKey Global Root GC CA,OU=OISTE Foundation Endorsed,O=WISeKey,C=CH
# Not Valid Before: Tue May 09 09:48:34 2017
# Not Valid After : Fri May 09 09:58:33 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\155\061\013\060\001\110\006\003\125\004\006\023\002\010\03\011\006\061
\020\060\016\006\003\125\004\012\023\007\127\11\112\13\145\113\145
\171\061\042\060\004\006\003\125\004\013\023\03\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\015\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\010\277\053\242\055
\072\352
END

CKA_VALUE MULTILINE_OCTAL
\060\020\002\151\106\020\001\135\240\003\002\001\002\002\020\041
\052\126\014\256\332\014\253\100\010\277\053\242\055
\072\352
END

CKA_SUBJECT MULTILINE_OCTAL
\060\155\061\013\060\001\110\006\003\125\004\006\023\002\010\03\011\006\061
\020\060\016\006\003\125\004\012\023\007\127\11\112\13\145\113\145
\171\061\042\060\004\006\003\125\004\013\023\03\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\015\156\144
\157\162\163\145\144\061\050\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\101
END
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "OISTE WISeKey Global Root GC CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\340\021\204\136\064\336\276\210\201\271\1234\366\026\046\321\226
\0373\303\271\061
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\251\326\271\055\057\223\144\370\245\151\132\221\351\150\007\043
END
CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\203\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\006\105\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\01
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\041\052\126\014\256\332\014\253\100\105\277\053\242\055
\072\352
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "UCA Global G2 Root"
#
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After : Mon Dec 31 00:00:00 2040
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\075\061\013\060\060\011\006\003\125\004\006\023\002\103\110\061
\020\060\016\006\003\125\004\012\203\007\127\111\123\145\113\145
\171\061\042\060\040\006\003\125\004\013\023\031\117\111\123\124
\105\040\106\157\165\156\144\141\164\151\157\156\040\105\156\144
\157\162\163\145\144\006\105\060\046\006\003\125\004\003\023\037
\117\111\123\124\105\040\127\111\123\145\113\145\171\040\107\154
\157\142\141\154\040\122\157\157\164\040\107\103\040\103\01

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\040\0107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\075\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\061\033\060\031\006\003\125\004\003\014\022\125\103\101
\040\107\154\157\142\141\154\040\107\062\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\135\337\261\332\132\243\135\135\176\132\145\040\145\003
\220\357

CKA_VALUE MULTILINE_OCTAL
\060\202\005\106\060\202\003\056\240\003\002\001\002\002\020\135
\337\261\332\132\243\355\135\135\176\132\145\040\145\003
\220\357

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\037\005\376\343\242\357\263\250\263\363\175\217\370\014\037\042
\037\055\264\270\001\064\166\060\000\345\043\170\247\126\327
\120\037\212\373\006\365\320\031\360\320

END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "UCA Global G2 Root"
# Issuer: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Subject: CN=UCA Global G2 Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 11 00:00:00 2016
# Not Valid After: Mon Dec 31 00:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Global G2 Root"

CKA_ISSUER MULTILINE_OCTAL
620/075/061/013/060/011/006/000/125/004/006/023/002/103/116/061
021/060/017/006/003/125/004/012/014/010/125/156/151/124/162/165
163/164/061/033/060/031/006/003/125/004/003/014/022/125/103/101
040/017/154/157/142/141/154/040/107/062/040/122/157/157/164

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root, O=UniTrust, C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After: Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
# Fingerprint (SHA1):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERTIFICATE_TYPE CKCERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\013\060\011\006\003\125\004\006\023\002\103\116\061
\021\060\017\006\003\125\004\012\014\010\125\156\151\124\162\165
\163\164\045\060\043\006\003\125\004\003\014\034\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\110\063\236\117\064\130\146\043
\160\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\132\060\020\003\102\249\003\002\001\002\002\020\117
\132\053\127\136\144\310\063\123\117\064\130\146\043\160\140\060
\015\006\011\052\026\011\020\063\367\1500\100\013\005\000\060\107
\061\013\060\011\006\003\125\004\006\023\002\103\116\061\021\060
\017\006\003\125\004\012\014\010\125\156\151\124\162\165\163\164
\061\045\060\043\006\003\125\004\003\014\034\125\103\101\040\105
\170\164\145\156\144\145\144\040\126\141\154\151\144\141\164\151
\157\156\040\122\157\157\164
\063\060\060\060\060\060\060\060\060\060\060\060\060\060\132\027\015\063\070\061\062\063\061
\060\060\060\060\060\060\060\132\060\107\061\013\006\011\006\003\125
\004\006\023\002\103\116\061\021\060\017\006\003\125\004\012\014
\010\25\156\151\124\162\165\163\164\061\045\060\043\006\003\125
\004\003\014\034\125\103\101\040\105\170\164\145\156\144\145\144
\040\126\141\154\151\144\141\164\151\157\156\040\122\157\157\164
\060\020\002\042\060\015\006\011\052\026\110\026\110\367\015\001
001

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CKA_NSS_Mozilla_CA_Policy CK_BBOOL CK_TRUE
CKA_NSS_Server_Distrust_After CK_BBOOL CK_FALSE
CKA_NSS_Email_Distrust_After CK_BBOOL CK_FALSE

# Trust for "UCA Extended Validation Root"
# Issuer: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Subject: CN=UCA Extended Validation Root,O=UniTrust,C=CN
# Not Valid Before: Fri Mar 13 00:00:00 2015
# Not Valid After : Fri Dec 31 00:00:00 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "UCA Extended Validation Root"
CKA_CERT_sha1_HASH MULTILINE_OCTAL
\243\241\260\157\044\141\043\112\343\066\245\302\067\374\246\377
\335\360\327\072
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\241\363\137\103\306\064\233\332\277\214\176\005\123\255\226\342
END

CKA_ISSUER MULTILINE_OCTAL
\060\010\076\001\105\013\060\001\010\006\000\003\125\000\04\006\023\002\103\116\061
\021\060\001\170\006\000\003\125\000\04\012\014\010\012\5\156\151\124\162\165
\163\164\060\104\050\006\000\003\125\000\04\003\014\003\125\103\101
\040\105\170\164\145\156\144\145\144\040\126\141\154\151\144\141
\164\151\157\156\040\122\157\157\164
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\117\322\053\217\365\144\310\063\236\117\064\130\146\043
END

CKA_TRUST_SERVER_AUTH CK_TRUST CK_TRUST_SERVER_AUTH
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CK_A_EMAIL_PROTECTION
CKA_TRUST_CODE_SIGNING CK_TRUST CK_A_CODE_SIGNING
CKA_TRUST_STEP_UP_APPROVED CK_B_BOOL CK_FALSE

# Certificate "Certigna Root CA"
#
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After: Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CK_C_CLASS
CKA_TOKEN CK_B_BOOL CK_TRUE
CKA_PRIVATE CK_B_BOOL CK_FALSE
CKA_MODIFIABLE CK_B_BOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\012\032\061\013\060\001\010\006\000\003\125\000\04\006\023\002\106\122\061
\022\060\002\020\006\000\003\125\000\04\012\014\011\1104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\060\063
\060\061\030\060\002\07\060\003\125\004\003\014\020\031\145\162\164
\151\147\156\141\040\122\157\157\164\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\013\026\010\013\060\001\010\006\000\003\125\000\04\006\023\002\106\122\061
\022\060\002\020\006\000\003\125\000\04\012\014\011\1104\150\151\155\171\157
\164\151\163\061\034\060\032\006\003\125\004\013\014\023\060\060
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\060\063
\060\062\040\064\070\061\064\066\063\060\070\061\060\060\060\060\063

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\311\176\205\366\161\1350\006\003\225\376\133\272\110\034\132\324
\222\250\053\356\47\061\333\127\020\041\152\207\150\347\035\137\357
\175\247\042\367\001\333\115\371\111\320\016\232\005\131\244\236
\230\331\157\053\121\160\276\144\032\125\243\364\351\125\73\032\222
\051\133\210\206\044\231\074\215\046\230\266\133\267\314\162\267
\067\073\375\146\331\123\205\004\377\131\043\003\232\355\253\235
\250\344\136\070\316\122\015\157\322\077\155\261\005\153\111
\316\212\221\106\163\364\366\057\360\250\163\167\016\145\254\241
\215\212\111\176\113\150\014\307\036\067\047\203\245\214\307
\002\344\024\231\111\010\260\163\263\375\306\220\072\115\73\221\154
\355\073\356\354\221\276\242\103\135\213\000\112\146\045\104\160
\336\100\173\370\174\025\367\242\316\074\327\136\023\124\201\027
\030\027\323\127\53\167\020\072\324\145\071\130\104\75\254\127\054
\045\24\377\242\332\117\212\141\071\136\256\075\112\214\275
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certigna Root CA"
# Issuer: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Subject: CN=Certigna Root CA,OU=0002 48146308100036,O=Dhimyotis,C=FR
# Not Valid Before: Tue Oct 01 08:32:27 2013
# Not Valid After : Sat Oct 01 08:32:27 2033
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certigna Root CA"

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CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\031\032\035\130\033\021\136\125\003\015\243\346\101\155\304
\343\246\341
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\011\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\151\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\045\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\147\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\011\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\151\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\034\060\032\006
\003\125\004\003\023\023\045\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
END
# Trust for "emSign Root CA - G1"
# Issuer: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign Root CA - G1,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprin... (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - G1"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\121\307\255\217\163\254\116\130\126\165\115\245\100\364\374\317
\174\265\216\214
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\234\102\204\127\335\313\013\247\056\225\255\266\363\332\274\254
CKA_ISSUER MULTILINE_OCTAL
\060\147\060\101\03\060\01\100\06\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\124\155\123\151\147\156
\040\120\113\11\106\104\060\043\006\003\125\004\012\023\034\145
\115\163\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\154\153\060\114\151\155\116\145\144\061\034\060\032\006
\033\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157
\164\040\103\101\040\055\040\107\061
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\061\365\344\142\014\154\130\355\326\330
# Certificate "emSign ECC Root CA - G3"

# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\153\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\056\043\006\003\125\004\012\023\034\145
\111\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\056\043\006\003\125\004\012\023\034\145
\111\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\061\040\060\036\006
\003\125\004\003\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\213\204
END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\116\060\202\001\323\240\003\002\1
\366\007\251\150\160\016\332\213\204\060\12\060\010\052\206\110
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - G3"
# Issuer: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Serial Number:3c:f6:07:a9:68:70:0e:da:8b:84
# Subject: CN=emSign ECC Root CA - G3,O=eMudhra Technologies Limited,OU=emSign PKI,C=IN
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - G3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\060\103\372\117\362\127\334\240\303\200\356\056\130\352\170\262
\077\346\273\301
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061\n\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\006\104\006\036\006
\003\125\004\030\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_ISSUER MULTILINE_OCTAL
\060\153\061\013\060\011\006\003\125\004\006\023\002\111\116\061\n\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\045\060\043\006\003\125\004\012\023\034\145
\115\165\144\150\162\141\040\124\145\143\150\156\157\154\157\147
\151\145\163\040\114\151\155\151\164\145\144\006\104\006\036\006
\003\125\004\030\023\027\145\155\123\151\147\156\040\105\103\103
\040\122\157\157\164\040\103\101\040\055\040\107\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\012\074\366\007\251\150\160\016\332\204
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "emSign Root CA - C1"
#
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number:00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
\0303\0363\0305\03b2\0206\0363\0205\0355\03d7\271\0331\062\0255\0125\0210\0316
\2462\266\221\260\011\17\25\0176\0250\0432\226\066\077\360\040\064\026
\336\012\306\034\004\010\051\017\177\247\375\0276\312\25\124\252\073
\035\054\035\032\367\074\061\54\273\257\217\163\050\072\262\0363\064
\002\023\374\337\27\00\03\21\01\02\02\32\24\25\02\25\036\376\211\013\024
\012\02\05\01\00\00\03\03\063\030\042\026\004\024\376\024
\340\01\06\03\05\02\03\07\01\11\22\01\22\02\04\01\00\4\003\002
\001\00\00\06\00\01\07\00\06\03\03\05\03\03\03\02\03\00\04\01\00\13
\005\00\00\00\03\02\00\00\01\00\00\03\02\01\12\02\03\02\05\04\11\17\3\050\242
\351\03\45\035\373\370\055\030\071\122\01\11\11\04\037\047\054\034\015
\030\025\02\03\06\02\05\25\07\01\13\01\05\046\01\334\036\066\260\037\073
\376\01\03\22\00\11\06\02\23\01\22\02\05\133\037\02\10\051\037\02\253\123\370
\273\03\01\07\00\17\25\04\23\12\23\07\27\25\15\02\14\057\15\10\063\360
\243\02\04\03\14\03\07\14\14\07\02\10\04\25\05\35\21\13\13\12\05\21\070
\222\024\33\17\02\06\01\06\06\03\04\23\33\06\00\03\04\24\31\01\07\04
\255\02\04\02\02\12\26\06\06\17\12\22\24\1\27\05\04\37\06\04\00\04\17\2350
\11\52\024\04\02\03\04\04\03\05\04\25\03\06\03\10\03\03\1\11\23\060
\141\00\04\34\51\11\06\04\17\06\05\03\01\03\06\01\17\03\00\25\23\51\27\2124
\136\06\03\13\04\035\017\17\12\03\24\37\06\27\01\13\23\12\04\07\03\00\56
\274\00\02\05\03\32\03\04\00\10\34\12\07\06\01\03\06\03\16\04\23\21\023
\373\02\01\35\22\02\04\12\01\03\10\07\13\06\03\32\10\12\06\03\01\0226
\0\22\15\06\04\37\01\31\01\17\22\21\07\03\24\10\72\26\12\24\20\03\33\34\000
\31\42\03\22\03\25\03\03\03\10\06\06\14\22\01\04\06\03\00\25\11\10\24\72\50
\131\17\34\12\26\04\24\23\42\01\2\12\07\01\72\14\21\23\53\12\11\43\41
\361\03\37\01\27\6\20\03\01\5\102
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign Root CA - C1"
# Issuer: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Serial Number: 00:ae:cf:00:ba:c4:cf:32:f8:43:b2
# Subject: CN=emSign Root CA - C1,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign Root CA - C1"
# Certificate "emSign ECC Root CA - C3"

# Issuer: CN=emSign ECC Root CA - C3, O=eMudhra Inc, OU=emSign PKI, C=US
# Subject: CN=emSign ECC Root CA - C3, O=eMudhra Inc, OU=emSign PKI, C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After: Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\060\103\060\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\262
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\060\103\060\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\132\060\103\060\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\063
END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\056\361\337\374\262\201\110\050\131\135\324\325\147\067\261\121
\313\206\117\001
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\330\343\135\001\041\372\170\132\260\337\272\322\356\052\137\150
END

CKA_ISSUER MULTILINE_OCTAL
\060\126\060\103\060\003\125\004\006\023\002\125\123\061
\023\060\021\006\003\125\004\013\023\012\145\155\123\151\147\156
\040\120\113\111\061\024\060\022\006\003\125\004\012\023\013\145
\115\165\144\150\162\141\040\111\156\143\061\034\060\032\006\003
\125\004\003\023\023\145\155\123\151\147\156\040\122\157\157\164
\040\103\101\040\055\040\103\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\013\000\256\317\000\272\304\317\062\262
END
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "emSign ECC Root CA - C3"
# Issuer: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Subject: CN=emSign ECC Root CA - C3,O=eMudhra Inc,OU=emSign PKI,C=US
# Not Valid Before: Sun Feb 18 18:30:00 2018
# Not Valid After : Wed Feb 18 18:30:00 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "emSign ECC Root CA - C3"
CKA_LABEL UTF8 "emSign ECC Root CA - C3"

END

# Certificate "Hongkong Post Root CA 3"

# Issuer: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hongkong Post,L=Hong Kong,ST=Hong Kong,C=HK

END
END

# Trust for "Hongkong Post Root CA 3"
# Issuer: CN=Hongkong Post Root CA 3,O=Hong Kong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Subject: CN=Hongkong Post Root CA 3,O=Hong Kong Post,L=Hong Kong,ST=Hong Kong,C=HK
# Not Valid Before: Sat Jun 03 02:29:46 2017
# Not Valid After : Tue Jun 03 02:29:46 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Hongkong Post Root CA 3"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\130\242\320\354\040\122\201\133\301\363\370\144\002\044\116\302
\216\002\113\002
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\021\374\237\275\163\060\000\221\212\375\077\363\130\271\131\040\360
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\013\060\011\006\003\125\004\006\023\002\110\113\061
\022\060\020\006\003\125\004\010\023\011\110\157\156\147\040\113
\157\156\147\061\022\060\020\006\003\125\004\007\023\011\110\157
\156\147\040\113\131\157\156\147\061\020\060\024\006\003\125\004\012
\023\015\110\157\156\147\153\157\156\147\040\120\157\163\164\061
\040\060\036\006\000\312\230\027\110\157\156\147\153\157
\156\147\040\120\157\163\164\040\122\157\157\164\040\103\101\040
\063
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\010\026\137\212\14\245\354\003\311\223\100\337\304\306
\256\043\270\034\132\244
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Entrust Root Certification Authority - G4"
#

# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:00:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",OU=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

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CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\015\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012\013\012
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\002\021\000\301\255\103\177\257\251\071\017\000\000\000\000\000\125\145\255\130
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\000\002\021\000\003\311\265\103\177\257\251\071\017\000\000\000\000\000\125
\145\255\130
END

CKA_VALUE MULTILINE_OCTAL
\# Trust for "Entrust Root Certification Authority - G4"
# Issuer: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Serial Number:00:d9:b5:43:7f:af:a9:39:0f:00:00:00:05:55:65:ad:58
# Subject: CN=Entrust Root Certification Authority - G4,OU="(c) 2015 Entrust, Inc. - for authorized use only",O=See www.entrust.net/legal-terms,O="Entrust, Inc.",C=US
# Not Valid Before: Wed May 27 11:11:16 2015
# Not Valid After : Sun Dec 27 11:41:16 2037
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Entrust Root Certification Authority - G4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\024\210\116\206\046\067\260\046\257\131\142\134\100\167\354\065
\051\272\226\001
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\211\123\361\203\043\267\174\216\005\361\124\161\070\116\037\210
END
CKA_ISSUER MULTILINE_OCTAL
\060\020\127\60\013\060\011\100\003\125\004\006\023\002\125\123
\061\026\060\024\006\003\125\004\012\023\015\105\156\164\162\165
\163\164\054\040\111\156\143\056\061\050\060\046\006\003\125\004
\013\023\037\123\145\145\040\167\167\167\056\145\156\164\162\165
\163\164\056\156\145\164\057\154\147\147\141\154\055\164\145\162
\155\163\061\071\060\067\006\003\125\004\013\023\060\050\143\051
\040\062\060\061\065\040\105\156\164\162\165\163\164\054\040\111
\156\143\056\040\146\157\162\040\141\165\164\150\157\162
\151\172\145\144\040\165\163\145\040\157\156\154\171\061\062\060
\060\006\003\125\004\003\023\051\105\156\164\162\165\163\164\040
\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151
\157\156\040\101\165\164\150\157\162\151\164\171\040\055\040\107
\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\021\000\033\125\103\177\257\251\071\017\000\000\000\000\0125
\145\255\130
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After : Fri Jul 18 23:16:04 2042
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\x06\x01\x45\x06\x10\x13\x06\x00\x01\x10\x06\x00\x03\x12\x50\x04\x00\x06\x02\x30\x02\x12\x25\x12\x30\x61
\x03\x60\x06\x03\x40\x00\x03\x12\x50\x04\x01\x20\x23\x02\x51\x15\x11\x43\x16\x2\x15\x17\x16\x3
\x15\x71\x46\x16\x40\x04\x10\x31\x57\x16\x2\x16\x0\x15\x71\x6\x2\x14\x16\x41\x15\x11\x57\x15\x60\x61
\x06\x60\x06\x04\x00\x03\x12\x50\x04\x03\x20\x3\x05\x11\x15\x11\x43\x16\x2\x15\x17\x16\x40\x40\x10\x31\x45\x162
\x16\x41\x15\x11\x43\x14\x16\x41\x45\x04\x01\x11\x65\x16\x41\x50\x15\x71\x16\x2\x151
\x16\x41\x71\x04\x00\x06\x02\x60\x06\x01\x067
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\x06\x01\x45\x06\x10\x13\x06\x00\x01\x10\x06\x00\x03\x12\x50\x04\x00\x06\x02\x30\x02\x12\x25\x12\x30\x61
\x03\x60\x06\x03\x40\x00\x03\x12\x50\x04\x01\x20\x23\x02\x51\x15\x11\x43\x16\x2\x15\x17\x16\x3
\x15\x71\x46\x16\x40\x04\x10\x31\x57\x16\x2\x16\x0\x15\x71\x6\x2\x14\x16\x41\x15\x11\x57\x15\x60\x61
\x06\x60\x06\x04\x00\x03\x12\x50\x04\x03\x20\x3\x05\x11\x15\x11\x43\x16\x2\x15\x17\x16\x40\x40\x10\x31\x45\x162
\x16\x41\x15\x11\x43\x14\x16\x41\x45\x04\x01\x11\x65\x16\x41\x50\x15\x71\x16\x2\x151
\x16\x41\x71\x04\x00\x06\x02\x60\x06\x01\x067
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\x00\x20\x01\x46\x03\x62\x07\x5\x27\x02\x07\x3\x36\x21\x3\x26\x1\x12\x3\x52\x0\x14\x12\x7\x06\x1\x00\x00
\x03\x02\x354
END

CKA_VALUE MULTILINE_OCTAL
\x06\x02\x02\x00\x131\x06\x02\x00\x01\x1337\x24\x00\x03\x02\x00\x01\x00\x02\x00\x02\x02\x146
\x36\x02\x07\x5\x27\x02\x07\x3\x36\x21\x3\x26\x1\x12\x3\x52\x0\x14\x12\x7\x06\x1\x00\x01\x03\x02\x354\x060
\x01\x20\x06\x01\x00\x05\x2\x06\x1\x10\x3\x16\x75\x04\x00\x03\x03\x06\x01\x45\x06\x1\x03\x060
\x01\x10\x06\x00\x03\x12\x50\x04\x00\x06\x02\x3\x00\x02\x12\x25\x12\x30\x61\x03\x60\x06\x00\x03\x04\x06\x00\x03
\x12\x00\x04\x01\x20\x23\x02\x51\x15\x11\x43\x16\x2\x15\x17\x16\x3\x15\x71\x46\x16\x40\x04\x10\x31\x45\x162
\x15\x71\x62\x16\x0\x15\x71\x16\x2\x14\x16\x41\x15\x11\x57\x15\x60\x61\x06\x06\x06\x06\x4\x06\x06\x03
\x12\x05\x04\x00\x03\x23\x05\x51\x15\x11\x43\x16\x2\x15\x17\x16\x3\x15\x71\x46\x16\x40\x04\x10\x50\x13\x03\x04\x00\x122\x15\x17\x16\x41\x45\x04\x01\x11\x65\x16\x41\x50\x15\x71\x16\x2\x151
\x14\x16\x41\x45\x04\x01\x11\x65\x16\x41\x50\x15\x71\x16\x2\x151
\x16\x41\x71\x04\x00\x06\x02\x60\x06

Open Source Used In cnBR Operations Hub 22.2  17108
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft ECC Root Certificate Authority 2017"
# Issuer: CN=Microsoft ECC Root Certificate Authority 2017, O=Microsoft Corporation, C=US
# Subject: CN=Microsoft ECC Root Certificate Authority 2017, O=Microsoft Corporation, C=US
# Not Valid Before: Wed Dec 18 23:06:45 2019
# Not Valid After: Fri Jul 18 23:16:04 2042
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft ECC Root Certificate Authority 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\231\232\144\303\177\364\175\237\253\225\361\107\151\211\024\140\356\304\303\305
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\335\241\003\346\112\223\020\321\277\360\031\012\313\376\355\147
END
CKA_ISSUER MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\014\166\362\075\257\336\213\261\112\352\014\127\061\001\302\354
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "Microsoft RSA Root Certificate Authority 2017"
#
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060\061\067
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT_MULTILINE_OCTAL
\060\145\061\013\060\011\006\003\125\004\006\023\002\125\123\061\036\060\034\006\003\125\004\012\023\025\115\151\143\162\157\163\157\146\164\040\103\157\162\160\157\162\141\164\151\157\156\061\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163\157\146\164\040\105\103\103\040\122\157\157\164\040\103\145\162\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151\164\171\040\062\060\061\067
END
Open Source Used In cnBR Operations Hub 22.2 17110
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Microsoft RSA Root Certificate Authority 2017"
# Issuer: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Subject: CN=Microsoft RSA Root Certificate Authority 2017,O=Microsoft Corporation,C=US
# Not Valid After : Fri Jul 18 23:00:23 2042
# Fingerprint (SHA-256):

END

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Microsoft RSA Root Certificate Authority 2017"

END

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\163\245\346\112\073\377\203\026\377\016\334\314\141\212\220\156
\116\256\115\164

END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\020\377\000\377\317\311\370\307\172\300\356\065\216\311\017\107

END

CKA_ISSUER MULTILINE_OCTAL
\060\145\061\103\066\001\111\006\003\125\004\006\023\002\125\123\061
\036\060\034\006\000\125\004\012\023\025\115\151\143\162\157\163
\157\146\164\040\103\157\162\160\157\162\141\164\151\151\157\156\061
\066\060\064\006\003\125\004\003\023\055\115\151\143\162\157\163
\157\146\164\040\122\123\101\040\122\157\157\164\040\103\145\162
\164\151\146\151\143\141\164\145\040\101\165\164\150\157\162\151
\164\171\040\062\060\061\067

END
# Certificate "e-Szigno Root CA 2017"
# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After: Fri Aug 22 12:07:06 2042

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\036\323\227\011\137\330\264\263\107\160\036\252\276\177
\105\263

END
\002\014\001\124\110\357\041\375\227\131\015\365\004\012
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\100\060\020\020\001\345\240\003\002\000\010\002\020\014\001
\\0124\110\357\041\375\227\131\015\365\004\012\020\060\012\006\010\0052
\\020\061\103\161\075\004\003\002\060\161\061\013\060\011\006\003\0125
\\004\000\060\023\002\011\025\061\021\060\017\006\003\0125\000\04\007\014
\\010\010\126\164\141\116\164\061\026\060\024\006\003\0125
\\004\010\124\115\151\143\162\157\163\145\143\040\114\164\144
\\056\061\027\060\025\006\003\125\000\04\141\014\016\126\111\124\110
\\125\055\062\063\065\070\006\064\064\071\067\061\036\006\003\000\000
\\125\004\003\014\025\145\055\123\172\151\147\156\157\040\122\157
\\157\164\040\103\110\040\062\060\061\067\060\036\027\015\061\067
\\060\070\062\061\061\062\060\067\060\066\132\020\15\010\130\006\011
\\006\003\125\004\006\023\002\011\025\061\021\060\017\006\003\0125
\\004\000\071\014\010\102\165\144\141\160\145\163\164\061\026\060\024
\\006\003\0125\004\001\012\014\015\151\151\143\162\157\163\145\143\040
\\114\164\144\056\061\027\060\025\006\003\125\000\04\141\014\016\126
\\101\112\112\125\055\062\063\065\070\006\064\064\071\067\061\036\006
\\034\000\063\0125\004\003\003\014\025\145\055\123\172\151\147\156\157
\\154\010\122\157\157\164\040\010\101\104\060\062\060\061\067\060\036\010
\\102\300\060\070\062\052\020\061\013\161\075\020\001\006\010\052\206\110\316
\\075\003\001\007\003\012\020\000\142\226\334\075\212\330\260\173\157
\\306\047\276\104\220\261\126\126\025\173\216\103\044\175\032\204
\\131\135\143\150\262\306\136\136\207\320\025\110\036\250\220\255\275
\\123\242\332\336\072\220\246\140\137\150\062\265\206\101\337\207
\\133\054\173\173\035\173\174\172\332\243\143\060\141\010\017\006\003
\\125\035\023\001\001\177\004\005\060\003\000\010\113\177\060\161\006
\\003\125\035\017\000\100\113\177\004\004\140\130\113\177\060\161\006
\\003\125\035\016\010\004\206\040\142\207\101\025\010\132\253\204\170
\\101\142\261\257\316\036\311\122\035\277\060\004\130\006\037\006\1003
\\125\035\043\004\030\206\200\1024\197\202\1025\010\321\252\201
\\170\041\126\257\316\036\311\122\035\277\060\004\130\006\120\006
\\010\052\206\110\316\075\004\003\203\003\111\000\060\106\002\041
\\000\002\257\335\327\212\125\013\066\341\126\104\372\324\331\150
\\215\020\334\034\043\212\015\321\141\057\175\352\163\345\277\115\154
\\250\002\041\000\313\245\264\022\332\247\265\035\031\176\223\374
\\363\065\217\157\116\132\174\264\274\116\262\374\162\252\133\131
\\371\147\334\061
END

CKA_NSS_Mozilla_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for ”e-Szigno Root CA 2017”
# Issuer: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Serial Number:01:54:48:ef:21:fd:97:59:0d:f5:04:0a
# Subject: CN=e-Szigno Root CA 2017,OID.2.5.4.97=VATHU-23584497,O=Microsec Ltd.,L=Budapest,C=HU
# Not Valid Before: Tue Aug 22 12:07:06 2017
# Not Valid After : Fri Aug 22 12:07:06 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "e-Szigno Root CA 2017"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\211\324\203\003\117\236\232\110\200\137\162\067\324\251\246\357
\313\174\037\321
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\336\037\366\236\204\256\247\264\041\136\036\130\175\321\204\230
END
CKA_ISSUER MULTILINE_OCTAL
\060\161\060\101\030\060\011\006\003\125\004\006\023\002\110\125\061
\021\060\017\006\003\125\004\007\014\010\102\165\144\141\160\145
\163\164\061\102\060\024\006\003\125\004\012\014\15\115\15\143
\162\157\163\145\143\040\114\164\144\056\061\027\060\025\006\003
\125\004\141\140\016\126\101\124\110\125\055\062\063\065\070\064
\064\071\067\061\036\060\034\006\003\125\004\003\014\025\145\055
\123\172\151\147\156\157\040\122\157\157\164\040\033\101\040\062
\060\061\067
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\000\1\24\110\357\041\375\227\131\105\365\004\012
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "certSIGN Root CA G2"
#
# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number:11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After : Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "certSIGN Root CA G2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\013\010\122\124\123\111
\107\116\040\123\010\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\031\01
\040\107\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\013\010\122\124\123\111
\107\116\040\123\010\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\031\01
\040\107\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\306\066\055\066
END
CKA_VALUE MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061
\024\060\022\006\003\125\004\012\023\013\013\010\122\124\123\111
\107\116\040\123\010\061\034\060\032\006\003\125\004\013\023\023
\143\145\162\164\123\111\107\116\040\122\117\117\124\040\031\01
\040\107\062
END

# Trust for "certSIGN Root CA G2"
# Issuer: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Serial Number:11:00:34:b6:4e:c6:36:2d:36
# Subject: OU=certSIGN ROOT CA G2,O=CERTSIGN SA,C=RO
# Not Valid Before: Mon Feb 06 09:27:35 2017
# Not Valid After : Thu Feb 06 09:27:35 2042
# Fingerprint (SHA-256):
CA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CA_TOKEN CK_BBOOL CK_TRUE
CA_PRIVATE CK_BBOOL CK_FALSE
CA_MODIFIABLE CK_BBOOL CK_FALSE
CA_LABEL UTF8 "certSIGN Root CA G2"
CA_CERT_SHA1_HASH MULTILINE_OCTAL
\046\371\223\264\355\075\050\047\260\271\113\247\351\025\035\243\1215\222\345\062
END
CA_CERT_MD5_HASH MULTILINE_OCTAL
\214\361\165\212\306\031\131\224\267\367\145\040\207\303\227\307
END
CA_ISSUER MULTILINE_OCTAL
\060\101\061\013\060\011\006\003\125\004\006\023\002\122\117\061\024\060\022\060\003\125\004\012\023\013\103\105\122\124\123\111\107\116\040\123\010\034\060\032\060\003\125\004\013\023\023\143\145\162\164\123\111\107\116\040\122\117\117\124\040\103\101\040\107\062
END
CA_SERIAL_NUMBER MULTILINE_OCTAL
\002\011\021\000\064\266\116\036\066\055\066
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Trustwave Global Certification Authority"
#
# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.".,L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings,
Inc.".,L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\02012100601013\0600011\0060003\1250040060023002\125123
\0610210600170060003\1250040100140101111154151151156
\15711511630610200600160060003\12500400701140071031150
\151114311411471570610410600037006003\125004012014030
\12411621651631641671141166114504011015711541441151156
\147163054040111115611430560611061060057006003\125004
\00301405012416216516316414116164145040107154157
\1421141540401031451621641511461151143141164151157
\1560401011651641501571162151164171
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\02012100601013\0600011\0060003\1250040060023002\125123
\0610210600170060003\1250040100140101111154151151156
\15711511630610200600160060003\12500400701140071031150
\151114311411471570610410600037006003\125004012014030
\12411621651631641671141166114504011015711541441151156
\147163054040111115611430560611061060057006003\125004
\00301405012416216516316414116164145040107154157
\1421141540401031451621641511461151143141164151157
\1560401011651641501571162151164171
END
# Trust for “Trustwave Global Certification Authority”
# Issuer: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Subject: CN=Trustwave Global Certification Authority,O="Trustwave Holdings, Inc.",L=Chicago,ST=Illinois,C=US
# Not Valid Before: Wed Aug 23 19:34:12 2017
# Not Valid After : Sat Aug 23 19:34:12 2042
# Fingerprint (SHA-256):

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
057\217\066\173\41\130\227\104\041\131\207\245\052\232\320\151
\225\046\177\265

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\370\034\030\055\057\272\137\155\241\154\274\307\253\221\307\016

CKA_ISSUER_MULTILINE_OCTAL
\060\201\210\061\103\060\011\006\003\012\50\040\006\023\002\125\123
\061\021\060\017\006\003\012\50\040\10\014\011\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\012\50\040\07\014\007\103\150
\151\143\141\147\157\06\104\106\037\006\003\012\50\040\12\014\030
\124\161\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\011\11\156\143\056\061\061\060\057\006\003\125\004
\003\014\050\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\010\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\005\367\016\206\332\111\363\106\065\056\272\262

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Trustwave Global ECC P256 Certification Authority"

# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US

# Serial Number:0d:6a:5f:08:3f:28:5e:3e:51:95:df:5d

# Subject: CN=Trustwave Global ECC P256 Certification Authority,O="Trustwave Holdings, Inc.".,L=Chicago,ST=Illinois,C=US

# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After : Sat Aug 23 19:35:10 2042

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL
\060\201\221\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\021\060\001\07\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\011\11\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\161\164\171

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\021\060\001\07\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\011\11\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\161\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135

END
CKA_VALUE MULTILINE_OCTAL
\060\202\002\140\003\002\001\002\002\014\015
\152\137\010\007\050\134\076\12\122\253\337\135\060\12\006\01\005\22
\206\110\316\075\004\003\002\060\20\22\061\01\03\060\01\006\003
\125\004\006\023\008\012\016\001\07\006\003\125\004\010
\023\010\111\115\154\151\155\157\151\163\061\02\006\01\010\006\003
\125\004\007\023\008\011\010\015\144\141\147\157\061\041\010\037
\006\003\125\004\012\023\003\012\016\016\013\064\016\014\015
\140\110\157\154\144\151\156\147\163\054\040\11\115\156\143\056\061
\072\060\07\000\063\003\125\004\003\023\061\12\162\165\163\164\167
\141\166\145\040\107\154\157\142\141\154\040\105\03\03\004\120
\062\065\060\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\152\151\164\171\060\036\027\015\061
\067\060\07\002\023\060\061\071\063\065\010\012\27\015\064\062
\060\070\062\063\061\071\063\065\061\012\027\015\064\062
\060\070\062\063\061\071\063\065\061\012\027\015\064\062
\060\060\011\006\003\125\004\006\023\002\125\012\061\021\060\017\006
\003\125\004\010\002\023\010\101\154\154\151\156\157\151\163\061\020
\060\060\016\006\003\125\004\004\007\023\007\013\015\151\143\141\147
\157\061\041\060\037\009\060\033\125\004\012\002\023\030\124\162\165\163\164
\167\141\146\145\040\110\157\154\144\151\156\147\163\054\040\111
\156\143\056\061\017\02\060\07\000\063\006\012\25\004\003\023\061\124\162
\165\163\164\167\141\146\145\040\107\154\157\142\141\154\040\105
\103\310\030\040\120\062\065\060\040\003\013\015\151\146\151\143
\141\164\151\157\156\040\101\165\164\150\157\152\151\164\171\060
\131\060\023\006\007\052\206\110\316\075\002\001\006\010\052\206
\110\316\075\003\001\007\000\03\102\000\004\176\137\154\136\043\334
\163\030\010\103\121\140\343\123\234\272\162\153\030\260\170\220\012
\200\033\070\03\012\135\321\025\031\142\323\244\227\006\070\321\015
\025\142\306\16\001\052\145\235\252\337\064\12\156\020\130\314
\063\222\061\03\043\375\011\072\246\077\252\243\10\060\10\106\001
\060\060\13\015\305\023\001\001\137\004\005\060\003\001\001\137\006
\017\006\003\125\035\017\001\001\137\000\040\050\003\000\07\006\000
\060\035\006\003\125\035\016\004\026\004\024\23\101\006\254\220
\155\321\112\135\316\125\245\112\202\231\262\261\264\121\131\123\367\060
\012\006\010\052\206\110\316\075\004\003\002\003\107\000\060\104
\002\040\007\346\124\332\016\240\132\262\256\021\237\070\035\266
\377\111\136\045\276\370\240\267\010\363\041\316\052\333\070\010\041
\014\067\002\040\055\046\003\240\005\275\153\321\366\113\370\145
\314\206\155\263\234\064\110\143\024\011\030\021\167\032\342\314
\234\341\164\173
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for “Trustwave Global ECC P256 Certification Authority”
# Issuer: CN=Trustwave Global ECC P256 Certification Authority,O=“Trustwave Holdings, Inc.”,L=Chicago,ST=Illinois,C=US
# Serial Number: 0d:6a:5f:08:3f:28:5c:3e:51:95:df:5d
# Subject: CN=Trustwave Global ECC P256 Certification Authority, O=“Trustwave Holdings, Inc.”, L=Chicago, ST=Illinois, C=US
# Not Valid Before: Wed Aug 23 19:35:10 2017
# Not Valid After: Sat Aug 23 19:35:10 2042
# Fingerprint (SHA-256):
# Fingerprint (SHA1):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P256 Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\264\220\202\335\105\014\276\213\133\261\146\323\342\244\010\046
\315\355\102\317
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\133\104\343\215\135\066\206\046\350\150\003\125\127\203\124
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\001\006\003\125\004\006\023\002\125\123
\061\012\060\017\006\003\125\004\010\023\010\111\154\154\151\156
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\03\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151\156
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\061\124\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\062\065\066\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\015\152\137\010\077\050\134\076\121\225\337\135
END

# Certificate "Trustwave Global ECC P384 Certification Authority"
#}

# Issuer: CN=Trustwave Global ECC P384 Certification Authority, O=“Trustwave Holdings, Inc.”, L=Chicago, ST=Illinois, C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority, O=“Trustwave Holdings, Inc.”, L=Chicago, ST=Illinois, C=US
\072\070\060\000\006\003\125\000\004\000\023\061\124\162\165\163\164\167
\141\166\145\040\010\175\154\157\142\141\154\040\010\053\103\030\040\120
\063\070\064\040\010\145\162\164\151\146\151\143\141\164\151\1157
\156\040\101\165\164\150\157\162\151\164\171\060\036\027\015\061
\067\060\070\062\063\061\071\063\066\064\063\132\027\015\064\062
\060\070\062\063\061\071\063\066\064\063\132\026\021\122\061\013
\060\011\006\003\125\000\040\006\023\002\125\123\061\021\060\017\006
\003\125\000\040\010\023\010\011\115\154\151\156\157\151\163\060\110
\060\016\006\000\003\125\000\004\007\023\007\103\150\151\143\141\164\151\157
\161\143\150\061\072\060\070\006\000\031\125\004\003\023\061\124\162
\165\163\164\167\141\166\145\040\010\175\154\151\156\147\163\054\040\111
\156\143\056\061\072\060\070\006\000\031\125\004\003\023\061\124\162
\165\163\164\167\141\166\145\040\107\154\151\157\142\141\154\040\105
\103\103\040\012\063\070\064\040\010\145\151\164\151\146\151\113
\141\164\151\157\156\040\101\165\164\150\157\162\151\164\171\060
\166\060\020\000\006\007\052\206\022\061\110\316\075\002\001\006\005\053\201
\004\000\040\023\031\42\000\004\153\332\015\165\065\010\006\110\7005
\256\015\233\111\253\361\021\023\056\112\370\020\061\043\243\176\203
\323\177\050\100\072\046\032\073\231\72\227\021\372\020\372\026\076\047\011
\217\321\212\160\030\041\223\016\254\130\004\253\367\066\175\224
\043\324\233\012\212\23\25\353\375\071\045\146\361\136\376\214
\256\212\101\171\235\011\140\316\050\251\313\212\155\363\326\105
\324\362\230\204\070\145\240\243\130\060\010\060\017\006\003\125
\035\023\001\011\377\004\005\060\003\001\001\377\006\017\006\003
\125\035\017\001\001\377\004\005\060\003\007\006\000\060\035\006
\003\125\035\016\000\042\006\004\024\125\212\041\113\232\301\062\275
\030\031\154\246\007\116\310\347\235\276\262\222\060\012\006\010
\052\206\011\030\167\075\000\040\030\030\031\47\000\060\144\002\060\067
\001\222\227\015\022\227\167\240\036\1076\255\031\072\162\335\364\120
\223\030\022\227\104\322\117\101\244\214\234\235\037\243\366\032
\222\247\110\243\376\116\233\245\221\127\256\067\162\237\002
\060\014\045\012\261\014\136\356\251\143\222\157\345\220\013\376
\146\042\312\073\375\212\061\367\203\376\172\277\202\276\030\053
\036\217\366\051\036\224\131\357\216\041\067\313\121\123\045\156
\113
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Trustwave Global ECC P384 Certification Authority"
# Issuer: CN=Trustwave Global ECC P384 Certification Authority,O= "Trustwave Holdings, Inc." ,L=Chicago,ST = Illinois,C=US
# Subject: CN=Trustwave Global ECC P384 Certification Authority,O= "Trustwave Holdings, Inc." ,L=Chicago,ST = Illinois,C=US
# Not Valid After: Sat Aug 23 19:36:43 2042
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Trustwave Global ECC P384 Certification Authority"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\347\363\243\310\317\157\303\004\056\155\016\147\062\305\236\150
\225\015\136\322
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\352\317\140\304\073\271\025\051\100\241\122\355\170\047\223\326
END
CKA_ISSUER MULTILINE_OCTAL
\060\201\221\061\013\060\001\11\006\003\125\004\006\023\002\125\123
\061\021\060\017\006\003\125\004\010\023\030\111\154\151\151
\157\151\163\061\020\060\016\006\003\125\004\007\023\007\103\150
\151\143\141\147\157\061\041\060\037\006\003\125\004\012\023\030
\124\162\165\163\164\167\141\166\145\040\110\157\154\144\151
\147\163\054\040\111\156\143\056\061\072\060\070\006\003\125\004
\003\023\060\112\162\165\163\164\167\141\166\145\040\107\154\157
\142\141\154\040\105\103\103\040\120\063\070\064\040\103\145\162
\164\151\146\151\143\141\164\151\157\156\040\101\165\164\150\157
\162\151\164\171
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\014\010\275\205\227\154\231\047\244\200\150\107\073
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\151\061\103\060\011\100\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\161\101\112\161\055\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\112
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\071\154\157\142\141\154\040\122
\157\157\164\040\013\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\151\061\103\060\011\100\006\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\161\101\112\161\055\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\112
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\071\154\157\142\141\154\040\122
\157\157\164\040\013\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\137\032\120\115\015
END

CKA_VALUE MULTILINE_OCTAL
\060\202\005\242\240\020\02\003\212\240\003\002\001\002\002\024\001
\224\060\036\242\013\335\365\305\063\052\261\103\104\161\137\032
\120\115\015\060\015\060\011\052\206\110\206\367\150\010\010
\005\000\060\151\061\013\060\011\006\003\125\004\006\023\002\113
\122\061\104\060\044\006\003\125\004\012\014\035\161\101\126\105
\122\040\102\125\123\111\116\105\123\123\040\120\114\101\124\106
\117\122\115\040\103\157\162\160\056\061\062\060\060\006\003\125
\004\003\014\051\116\101\126\105\122\040\071\154\157\142\141\154
\102\124\157\157\164\040\103\145\162\164\151\146\151\143\141\164
\151\157\156\040\101\165\164\150\157\162\151\164\171\060\036\027
\015\061\067\060\070\061\070\060\070\065\070\064\062\132\027\015
\063\067\060\070\061\070\062\063\065\071\112\060\151\061\063
\013\060\011\006\003\125\004\006\023\002\113\122\061\046\060\044
\006\060\03\125\004\012\124\035\116\101\126\105\122\040\102\125\123
\111\116\105\123\123\040\120\114\101\124\106\117\122\115\040\103
\157\162\160\056\061\062\060\060\006\003\125\004\003\014\051\116
\101\126\105\122\040\071\154\157\142\141\154\040\122\157\157\164
\104\010\135\162\164\151\146\151\143\141\164\151\157\156\040\101
\165\164\150\157\162\151\164\171\060\022\120\042\060\015\150\061
\052\206\110\206\367\150\001\001\005\000\003\202\002\017\000
"# Trust for "NAVER Global Root Certification Authority"

# Issuer: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Subject: CN=NAVER Global Root Certification Authority,O=NAVER BUSINESS PLATFORM Corp.,C=KR
# Not Valid Before: Fri Aug 18 08:58:42 2017
# Not Valid After : Tue Aug 18 23:59:59 2037

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "NAVER Global Root Certification Authority"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
END

CKA_ISSUER MULTILINE_OCTAL
\060\151\061\013\060\001\110\060\003\125\004\006\023\002\113\122\061
\046\060\044\006\003\125\004\012\014\035\116\101\112\165\015\122\040
\102\125\123\111\116\105\123\123\040\120\114\101\124\106\117\122
\115\040\103\157\162\160\056\061\062\060\060\006\003\125\004\003
\014\051\116\101\126\105\122\040\107\154\157\142\141\154\040\122
\157\157\164\040\103\145\162\164\151\146\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\001\224\060\036\242\013\335\365\305\063\052\261\103\104
\161\370\326\120\115\015

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
#
# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-
# Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-
# Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After : Sun Dec 20 09:37:33 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\170\061\013\060\001\110\060\003\125\004\006\023\002\113\123\061
\021\060\017\006\003\125\004\012\014\010\016\116\115\124\055\122
\103\115\061\106\060\014\006\003\125\004\013\014\005\103\145\162
\145\163\061\030\060\026\060\003\125\004\141\014\017\126\010\124
\105\123\055\121\062\070\062\062\066\060\060\064\112\061\054\060\052
\006\003\125\004\003\014\043\101\103\040\122\101\111\132\040\106
\116\115\124\055\122\103\115\040\123\051\122\126\111\104\117\122
\105\123\040\123\105\107\125\122\117\123

END
# Trust for "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
# Issuer: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Subject: CN=AC RAIZ FNMT-RCM SERVIDORES SEGUROS,OID.2.5.4.97=VATES-Q2826004J,OU=Ceres,O=FNMT-RCM,C=ES
# Not Valid Before: Thu Dec 20 09:37:33 2018
# Not Valid After : Sun Dec 20 09:37:33 2043
# Fingerprint (SHA-256):
# Fingerprint (SHA1)

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_LABEL UTF8 "AC RAIZ FNMT-RCM SERVIDORES SEGUROS"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
\235\225 END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "GlobalSign Secure Mail Root R45"
#
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_ISSUER MULTILINE_OCTAL
\060\122\061\013\060\001\100\066\003\125\004\006\000\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\004\060\003\023\027\109\154\157\142\141\154
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\122\064\065 END
CKA_ID UTF8 "0"
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217 \127\334
END
CKA_VALUE MULTILINE_OCTAL
\060\202\200\051\160\060\202\003\130\240\003\002\001\002\200\020\166
\123\376\250\114\120\253\237\215\062\265\035\003\217\127\334\060
# Trust for "GlobalSign Secure Mail Root R45"
# Issuer: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root R45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Open Source Used In cnBR Operations Hub 22.2 17138
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root R45"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\166\030\321\363\200\044\075\122\100\306\021\152\255\127\167\011
\175\201\060\240
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\223\304\173\263\016\124\107\034\103\054\213\276\160\205\142\051
END
CKA_ISSUER_MULTILINE_OCTAL
\060\122\061\13\060\011\006\003\125\004\006\023\002\12\105\061
\031\060\027\006\003\125\004\012\023\020\10\154\157\142\141\154
\12\15\147\156\040\156\166\055\163\141\061\050\060\046\060\003
\125\004\003\023\037\107\154\157\142\141\154\12\13\151\147\156\040
\12\145\143\165\162\145\040\115\141\151\154\040\12\157\157\164
\040\12\206\065
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\166\123\376\250\114\120\253\237\215\062\265\035\003\217
\127\334
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign Secure Mail Root E45"

# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
Open Source Used In cnBR Operations Hub 22.2

CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"

CKA_SUBJECT MULTILINE_OCTAL
\060\122\061\101\100\006\003\125\004\006\023\002\102\105\061
\031\106\027\100\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\004\060\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END

CKA_ISSUER MULTILINE_OCTAL
\060\122\061\101\100\006\003\125\004\006\023\002\102\105\061
\031\106\027\100\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\004\060\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\105\064\065
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\102\002\020\166\123\376\252\047\035\225\106\135\326\361\236\345\270
\220\012
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\041\060\202\001\124\124\000\003\002\001\002\002\020\166
\123\136\252\106\135\126\361\136\345\270\220\012\060
\01\100\020\005\020\011\136\075\004\003\003\060\122\161\103\106
\01\110\063\125\100\040\120\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\050\060\046\003\003
\125\004\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\156\166\055\163\141\061\050\060\046\003\003\125\004\004\030\233\037
\107\154\157\142\141\154\123\151\147\156\040\123\145\143\165\162
\145\040\115\141\151\154\040\122\157\157\164\040\105\064\065\060
\03\100\027\101\005\020\060\060\063\061\070\060\060\060\060\060\060
\01\132\060
\02\07\15\060\065\060\060\063\061\070\060\060\060\060\060\060\060
\01\132\060
\12\061\01\03\100\060\03\125\004\006\023\002\102\105\061\031\106\060
\00\04\003\023\037\107\154\157\142\141\154\123\151\147\156\040
\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\040\123\145\143\165\162\145\040\115\141\151\154\040\122\157\157\164
\150\064\065\060\166\060\060\020\006\007\052\206\110\103\316\075\002\001
\00\06\005\053\201\004\000\042\003\142\000\004\371\171\213\201\107
\06\72\112\226\077\105\111\120\177\032\046\013\223\062\176\056\300
\300\024\70\102\032\303\156\217\233\076\013\042\354\067\123\267\157
\212\260\274\047\067\113\155\215\116\073\331\037\377\245\241\104
\273\055\163\277\236\101\007\134\123\331\121\010\072\132\273\157
\07\03\07\20\221\170\302\112\023\151\035\022\337\132\057\000\210
\226\242\056\034\164\371\123\151\166\067\212\243\102\060\100\060
\01\006\003\125\035\017\001\001\137\004\004\003\002\001\206\060
# Trust for "GlobalSign Secure Mail Root E45"
# Issuer: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Secure Mail Root E45,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 18 00:00:00 2020
# Not Valid After : Sat Mar 18 00:00:00 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Secure Mail Root E45"

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

END
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "GlobalSign Root R46"
#
# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root R46"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\006\010\061\013\060\002\006\110\130\125\004\006\023\002\010\010\001
\013\102\240\015\015\106\367\015\014\005\000\060\010\061\013\060\002\006\110\130\125\004\006\023\002\010\010\001
\013\102\240\015\015\106\367\015\014\005\000
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\003\030\023\026\100\137\012\235\055\320\337\045\147\321
END
CKA_ID UTF8 "0"
CKA_ISSUER_MULTILINE_OCTAL
\006\010\061\013\060\002\006\110\130\125\004\006\023\002\010\010\001
\013\102\240\015\015\106\367\015\014\005\000\060\010\061\013\060\002\006\110\130\125\004\006\023\002\010\010\001
\013\102\240\015\015\106\367\015\014\005\000
CKA_VALUE MULTILINE_OCTAL
\060\020\005\132\060\020\003\102\240\003\002\001\002\002\022\021\322\273\273\043\030\023\026\100\137\012\235\055\320\337\045\147\321
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\003\030\023\026\100\137\012\235\055\320\337\045\147\321
END
CKA_VALUE MULTILINE_OCTAL
\060\020\005\132\060\020\003\102\240\003\002\001\002\002\022\021\322\273\273\043\030\023\026\100\137\012\235\055\320\337\045\147\321
\321\060\015\006\011\052\206\110\206\367\015\014\005\000\060\016\061\013\060\011\006\003\125\004\006\023\002\010\010\001
\031\060\027\006\003\125\004\012\235\020\107\154\142\141\154

# Trust for "GlobalSign Root R46"

# Issuer: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root R46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
# Certificate "GlobalSign Root E46"

# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046

CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\123\242\260\113\312\153\326\105\346\071\212\216\304\015\322\277
\167\303\242\220
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\304\024\060\344\372\146\103\224\052\152\033\044\137\031\320\357
END
CKA_ISSUER MULTILINE_OCTAL
\060\106\061\013\060\011\006\003\125\004\006\023\002\102\105\061
\031\060\027\006\003\125\004\012\023\020\107\154\157\142\141\154
\123\151\147\156\040\156\166\055\163\141\061\034\060\032\006\003
\125\004\003\023\023\107\154\157\142\141\154\123\151\147\156\040
\122\157\157\164\040\122\064\066
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\022\020\132\222\273\271\327\043\030\236\100\137\012\235\055\320
\337\045\147\321
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Trust for "GlobalSign Root E46"
# Issuer: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Subject: CN=GlobalSign Root E46,O=GlobalSign nv-sa,C=BE
# Not Valid Before: Wed Mar 20 00:00:00 2019
# Not Valid After : Tue Mar 20 00:00:00 2046
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign Root E46"

# Certificate "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5

\102\202\154\134\007\320\251\301\210\140\104\351\230\205\026\137
\370\217\312\001\202\301\64\053\371\140\033\240\305\027\227\303\323
\054\210\061\242\275\060\354\320\320\300\022\361\301\071\343\345
\365\370\326\112\335\064\315\373\157\301\117\343\300\213\126\342
\222\367\050\262\210\202\167\162\043\147\307\077\021\025\262\304\003
\005\276\273\021\173\012\227\250\156\347\377\130\103\317\233\147
\240\200\007\266\035\312\255\153\352\101\021\176\055\164\223\373
\302\274\276\121\104\035\357\150\045\047\200\034\100\240\324\022
\354\331\245\067\035\067\174\264\221\312\332\324\262\126\201\357
\150\134\166\020\111\257\176\245\067\200\261\034\122\275\063\201
\114\217\371\135\145\33\104\243\155\212\045\130\364\342\305\203\245
\011\220\324\154\024\243\326\100\037\373\335\300\374\304\130\176\015
\024\026\207\124\047\156\126\344\160\204\270\154\062\022\176\202
\061\103\276\327\335\174\244\255\256\262\255\040\022\357\012\303
\020\214\111\226\065\334\013\165\136\261\117\325\117\064\016\021
\040\007\165\103\105\351\243\021\332\254\243\231\302\266\171\047
\342\271\357\103\342\366\065\051\172\164\372\305\177\200\051\142
\246\012\352\150\262\171\107\006\156\362\127\250\025\063\306\367
\170\112\075\102\173\153\176\376\367\106\352\321\153\216\357\210
\150\133\350\031\331\161\167\375\144\357\377\147\107\210\130\045
\057\076\206\007\275\373\250\345\020\250\254\245\323\151\103\315
\061\120\111\204\123\222\300\261\071\033\071\203\001\060\304\362
\251\132\320\003\275\162\067\140\126\037\066\174\275\071\221\365
\155\015\277\173\327\222
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GLOBALTRUST 2020"
# Issuer: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Serial Number:5a:4b:bd:5a:fb:4f:8a:5b:fa:65:e5
# Subject: CN=GLOBALTRUST 2020,O=e-commerce monitoring GmbH,C=AT
# Not Valid Before: Mon Feb 10 00:00:00 2020
# Not Valid After : Sun Jun 10 00:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GLOBALTRUST 2020"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\320\147\301\023\121\001\014\252\320\307\152\145\067\061\026\046
\117\123\161\242
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
Certificate "ANF Secure Server Root CA"

Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510


Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510

Not Valid Before: Wed Sep 04 10:00:38 2019
Not Valid After: Tue Aug 30 10:00:38 2039

Fingerprint (SHA-256):


CLASS CONTEXT CERTIFICATE

TOKEN BBOOL TRUE

PRIVATE BBOOL FALSE

MODIFIABLE BBOOL FALSE

LABEL UTF8 "ANF Secure Server Root CA"

CERTIFICATE_TYPE TYPE CERTIFICATE_TYPE CKC_X_509

SUBJECT MULTILINE_OCTAL

CLASS CONTEXT CERTIFICATE

TOKEN BBOOL TRUE

PRIVATE BBOOL FALSE

MODIFIABLE BBOOL FALSE

LABEL UTF8 "ANF Secure Server Root CA"
Open Source Used In cnBR Operations Hub 22.2  17154

END

# Trust for “ANF Secure Server Root CA”
# Issuer: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Serial Number:0:d:d3:e3:bc:6c:f9:6b:b1
# Subject: CN=ANF Secure Server Root CA,OU=ANF CA Raiz,O=ANF Autoridad de Certificacion,C=ES,serialNumber=G63287510
# Not Valid Before: Wed Sep 04 10:00:38 2019
# Not Valid After : Tue Aug 30 10:00:38 2039
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ANF Secure Server Root CA"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\133\156\150\320\314\025\266\240\137\036\301\137\256\002\374\153
\057\135\157\164
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\046\246\104\132\331\257\116\057\262\035\266\145\260\116\350\226
END

CKA_ISSUER MULTILINE_OCTAL
\060\201\204\061\022\060\020\060\003\125\004\005\023\011\110\066
\063\062\070\067\065\061\010\060\011\010\060\003\125\004\006
\023\002\010\123\061\047\060\045\006\003\125\004\012\023\036\101
\116\106\040\101\165\164\157\162\151\144\141\144\040\144\145\040

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "Certum EC-384 CA"

# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After : Thu Mar 26 07:24:54 2043
CKA_CLASS CK_OBJECT_CLASS CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\164\061\013\060\011\006\003\125\004\006\023\002\120\114\061
\041\106\037\006\003\125\004\012\023\030\010\116\163\145\143\157
\040\010\14\116\141\104\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\16\16\155\040\103\145\162\164\151\164\151\143\141\164\151\157
\156\040\101\165\164\150\157\162\151\164\171\106\103\060\027\006
\003\125\004\030\023\020\010\145\162\164\165\155\040\010\103\055
\063\070\064\040\103\101
END

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\164\061\013\060\011\106\003\125\004\006\023\002\120\114\061
\041\106\037\006\003\125\004\012\023\030\010\116\163\145\143\157
\040\010\14\116\141\104\123\171\163\164\145\155\163\040\123\056
\101\056\061\047\060\045\006\003\125\004\013\023\036\103\145\162
\16\16\155\040\103\145\162\164\151\164\151\143\141\164\151\157
# Trust for "Certum EC-384 CA"
# Issuer: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum EC-384 CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Mon Mar 26 07:24:54 2018
# Not Valid After : Thu Mar 26 07:24:54 2043

CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum EC-384 CA"

CKA_ISSUER MULTILINE_OCTAL
\060\060\060\047\013\014\062\040\060\060\023\020\103\062\171\040\060\061\061\062\062\156\062\040\061\047\060\045\006\003\125\004\006\120\114\061
\041\060\037\006\003\125\004\012\023\030\010\163\163\145\143\157
\040\014\141\164\141\040\123\171\163\164\145\155\163\040\123\056
\101\056\010\047\060\045\006\003\125\004\013\023\036\103\145\162
\164\165\155\040\103\145\162\164\151\146\151\143\141\164\151\157
\165\040\101\165\164\150\157\162\151\164\171\061\031\060\027\006
\003\125\004\003\023\020\103\145\162\164\165\155\040\105\103\055
\063\070\064\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\017\021\047\134\201\022\122\040\245\004\032\055\335\272
\163\364

END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After: Mon Mar 16 12:10:13 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Certum Trusted Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL

CKA_SERIAL_NUMBER MULTILINE_OCTAL

CKA_VALUE MULTILINE_OCTAL
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Certum Trusted Root CA"
# Issuer: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Subject: CN=Certum Trusted Root CA,OU=Certum Certification Authority,O=Asseco Data Systems S.A.,C=PL
# Not Valid Before: Fri Mar 16 12:10:13 2018
# Not Valid After : Mon Mar 16 12:10:13 2043
# Certificate "TunTrust Root CA"

# Issuer: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Subject: CN=TunTrust Root CA,O=Agence Nationale de Certification Electronique,C=TN
# Not Valid Before: Fri Apr 26 08:57:56 2019
# Not Valid After : Tue Apr 26 08:57:56 2044
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "TunTrust Root CA"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\141\106\101\13\060\11\11\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\010\11\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\015
\162\164\151\146\151\143\141\164\151\157\156\040\105\151\145\143
\164\162\157\156\151\161\165\145\061\03\10\06\027\00\06\03\125\004
\003\014\020\124\165\156\12\162\165\163\164\040\122\157\157\164
\040\013\010
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\141\106\101\13\060\11\11\006\003\125\004\006\023\002\124\116\061
\067\060\065\006\003\125\004\012\014\056\010\11\147\145\156\143\145
\040\116\141\164\151\157\156\141\154\145\040\144\145\040\103\015
\162\164\151\146\151\143\141\164\151\157\156\040\105\151\145\143
\164\162\157\156\151\161\165\145\061\03\10\06\027\00\06\03\125\004
\003\014\020\124\165\156\12\162\165\163\164\040\122\157\157\164
\040\013\010
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\023\002\325\342\100\114\222\106\206\026\147\135\264\273
\273\262\153\076\374\023
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\263\060\202\003\233\240\003\002\001\100\202\002\024\023
\002\325\342\100\114\222\106\206\026\147\135\264\273\273\262\153
\076\374\023\060\015\006\011\052\206\110\206\367\015\001\001\013
\005\000\060\141\061\013\060\011\006\003\125\004\006\023\002\124
\11\06\01\067\060\065\006\003\125\004\012\014\056\101\11\147\145\156
\143\151\145\040\116\141\164\151\157\156\141\154\145\040\144\145\040
\103\102\161\164\151\146\151\143\141\164\151\157\156\040\105\151\145
\145\143\164\162\157\156\151\161\165\145\061\03\10\06\027\00\06\03\125
\125\004\003\014\020\124\165\156\12\162\165\163\164\040\122\157
\157\164\040\013\010\10\060\03\027\015\06\01\107\06\00\064\062\066\060
\070\06\065\067\065\066\132\02\15\064\064\060\06\06\06\06\06\070
\065\067\065\066\132\060\14\061\103\060\011\006\003\125\004\006
\023\002\124\116\061\067\060\065\006\003\125\004\012\014\056\101
\147\145\156\143\145\040\116\141\164\151\157\156\141\154\145\040
\144\145\040\103\015\162\164\151\146\151\143\141\164\151\157\156
\040\101\151\145\143\164\162\157\156\151\161\165\145\061\03\10\06
\027\00\06\03\125\004\003\014\020\124\165\156\12\162\165\163\164
\040\012\157\157\164\040\013\010\10\060\202\002\04\060\15\006\011
\052\206\110\202\03\067\015\001\001\000\005\000\003\02\002\001\17\000
\060\202\002\12\002\202\002\001\100\03\33\153\23\37\27\004\123
\33\014\040\072\325\210\056\005\113\101\365\023\02\176\367\131
Certificate "HARICA TLS RSA Root CA 2021"

Issuer: CN=HARICA TLS RSA Root CA 2021, O=Hellenic Academic and Research Institutions CA, C=GR
Subject: CN=HARICA TLS RSA Root CA 2021, O=Hellenic Academic and Research Institutions CA, C=GR
Not Valid Before: Fri Feb 19 10:55:38 2021
Not Valid After: Mon Feb 13 10:55:37 2045

CKA_CLASSES CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA TLS RSA Root CA 2021"
# Issuer: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:55:38 2021
# Not Valid After : Mon Feb 13 10:55:37 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS RSA Root CA 2021"

END
# Certificate "HARICA TLS ECC Root CA 2021"

# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR

# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045

# Fingerprint (SHA-256):


CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

CKA_SUBJECT MULTILINE_OCTAL

END

CKA_ID UTF8 ":0"

CKA_ISSUER MULTILINE_OCTAL

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL

END

CKA_VALUE MULTILINE_OCTAL

END

END
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HARICA TLS ECC Root CA 2021"
# Issuer: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA TLS ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:01:10 2021
# Not Valid After : Mon Feb 13 11:01:09 2045
# Fingerprint (SHA-256):

Open Source Used In cnBR Operations Hub 22.2 17170
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA TLS ECC Root CA 2021"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\274\260\301\235\351\230\222\160\031\070\127\351\215\247\264\135
\156\356\001\110
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\256\367\114\345\146\065\127\031\127\351\215\247\135
\156\356\001
END

CKA_ISSUER MULTILINE_OCTAL
\060\154\061\013\060\011\100\003\125\004\006\023\002\107\122\061
\067\060\065\006\003\125\004\012\140\056\110\145\154\154\145\156
\151\143\040\101\143\141\144\145\155\151\143\040\141\156\144\040
\122\145\163\145\141\162\143\150\040\111\156\163\164\151\164\165
\164\151\157\156\163\040\103\101\061\044\060\042\006\003\125\004
\100\014\033\110\101\122\111\103\101\040\124\114\123\040\105\103
\103\040\122\157\157\164\040\103\101\040\062\060\062\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\147\164\235\215\167\330\073\152\333\042\364\377\131\342
\277\316
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "HARICA Client RSA Root CA 2021"
#
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"

CKA_SUBJECT MULTILINE_OCTAL
# Trust for "HARICA Client RSA Root CA 2021"
# Issuer: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client RSA Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 10:58:46 2021
# Not Valid After : Mon Feb 13 10:58:45 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client RSA Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\106\306\220\012\167\072\266\127\364\315\255\254\374\343\367\007
\000\156\336\156
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\157\355\134\327\210\314\070\251\334\351\135\333\113\333\330\355
END
CKA_ISSUER MULTILINE_OCTAL
\060\157\061\013\060\001\100\066\003\125\004\006\023\002\107\122\061

END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE
# Certificate "HARICA Client ECC Root CA 2021"

# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
06706065006000311250004012014056110145154154154154154156
151143040101143141144145155151143040141156144040
1221451631451411621431500401111156163164151164165
1641511571515163140401031010611470600450600031125004
00310403611010112211110310104010311541151145156164
0401122112310104012211571164040103101040062060062
061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
00220201251223700363333033044054236273226030315002
050076
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
06706065006000311250004012014056110145154154154154154156
151143040101143141144145155151143040141156144040
1221451631451411621431500401111156163164151164165
1641511571515163140401031010611470600450600031125004
00310403611010112211110310104010311541151145156164
0401122112310104012211571164040103101040062060062
061
END

# Open Source Used In cnBR Operations Hub 22.2 17176
# Trust for "HARICA Client ECC Root CA 2021"
# Issuer: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Subject: CN=HARICA Client ECC Root CA 2021,O=Hellenic Academic and Research Institutions CA,C=GR
# Not Valid Before: Fri Feb 19 11:03:34 2021
# Not Valid After : Mon Feb 13 11:03:33 2045
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HARICA Client ECC Root CA 2021"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
CKA_CERT_MD5_HASH MULTILINE_OCTAL
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
# Certificate "Autoridad de Certificacion Firmaprofesional CIF A62634068"
#
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number: 1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After: Mon May 05 15:22:07 2036

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"

END
\000\040\000\144\000\145\000\040\000\154\000\141\000\040\000\102
\000\157\000\001\156\000\141\000\156\000\157\000\166\000\141\000\040
\000\064\000\067\000\004\000\102\000\141\000\162\000\143\000\015
\000\015\004\000\157\000\156\000\141\000\040\000\060\000\070\000\060
\000\006\100\000\067\060\001\060\003\125\035\017\011\001\013\7700\04\004
\003\002\011\006\060\015\006\011\052\206\11\020\063\767\015\001\010
\013\000\050\000\003\202\000\011\000\164\200\70\050\002\020\531\167\0371\146
\211\144\335\217\164\056\010\60\03\273\250\370\370\013\035\203\266
\072\247\350\105\212\007\267\340\076\040\313\341\010\333\023\010
\370\050\241\065\262\200\263\013\121\033\232\126\232\215\063\105
\111\257\11\136\034\000\07\017\212\050\232\132\773\110\227\330\323
\030\005\175\226\370\335\242\145\013\160\022\220\005\272\220\037
\350\031\260\333\054\212\140\017\267\157\224\007\036\035\246\311
\205\366\275\064\370\100\170\142\020\160\072\276\175\113\071\120
\251\102\322\242\226\101\273\370\137\034\013\035\010\362\261\120\111
\172\362\367\240\340\034\217\213\170\265\073\130\245\043\2161\117
\125\357\066\070\334\000\142\267\312\025\060\101\040\026\200\315\256
\374\166\161\163\250\256\160\341\117\334\322\033\350\224\040\346\042
\243\320\037\220\135\040\123\024\046\127\332\124\227\370\026\104
\020\000\103\260\110\146\217\162\070\022\335\050\267\064\276\372\367
\356\143\216\107\171\050\006\374\363\131\110\045\140\042\063\033
\343\137\250\272\052\332\032\075\315\100\352\214\356\005\025\225
\325\245\054\000\057\247\230\050\356\105\374\361\270\210\100\000\054
\217\102\332\212\135\234\345\023\150\161\110\103\213\236\013\041
\074\113\134\005\334\032\237\202\163\322\275\042\236\162\315\255
\012\133\314\243\147\233\050\164\304\233\327\032\074\004\130\246
\202\235\025\50\173\157\377\020\226\351\370\215\152\275\030\220
\035\977\110\132\220\112\067\223\057\074\002\135\202\166\013\121
\347\026\307\127\370\070\371\124\375\135\233\042\124\357\143\260\025
\155\123\145\003\112\126\112\240\262\247\216\110\000\131\070\032
\307\364\200\144\365\156\225\120\207\02\117\062\251\160\070\112\260
\177\326\030\040\062\160\300\031\177\311\070\305\024\054\146\364\102
\104\346\125\166\033\200\020\251\277\377\300\247\247\252\171\252\330
\323\160\320\056\272\333\224\152\372\137\064\206\347\142\265\375
\121\360\060\205\224\311\257\044\002\057\157\326\335\147\376\034
\260\125\117\004\230\117\224\101\126\342\222\320\152\350\326\363
\373\145\340\166\165\304\061\131\114\356\202\310\044\140\063\112
\031\127\204\147\047\017\274\102\135\275\044\124\015\354\035\160
\0061\371\244\274\372\040\174\125

END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "Autoridad de Certificacion Firmaprofesional CIF A62634068"
# Issuer: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Serial Number:1b:70:e9:d2:ff:ae:6c:71
# Subject: CN=Autoridad de Certificacion Firmaprofesional CIF A62634068,C=ES
# Not Valid Before: Tue Sep 23 15:22:07 2014
# Not Valid After : Mon May 05 15:22:07 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "Autoridad de Certificacion Firmaprofesional CIF A62634068"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\13\276\302\047\042\111\313\071\252\333\065\134\123\214\256
\170\377\266\376
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\116\156\233\124\114\312\267\372\110\344\220\261\025\113\034\243
END
CKA_ISSUER MULTILINE_OCTAL
\060\121\061\101\066\100\003\125\004\006\023\002\105\123\061
\102\060\100\006\003\125\004\006\023\002\105\123\061
\144\141\144\040\144\145\040\103\145\162\164\151\146\151\143\141
\143\151\157\156\040\106\151\162\155\141\160\162\157\146\145\163
\151\157\156\141\154\040\103\111\106\040\101\066\062\066\063\064
\060\066\070
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\010\033\160\351\322\377\256\154\161
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# 
# Certificate "vTrus ECC Root CA"
#
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\060\001\110\006\003\112\050\040\006\023\002\103\116\061
\034\060\032\006\003\112\500\040\012\023\023\115\124\162\165\163\103
\150\151\156\141\040\103\117\056\054\114\164\144\006\061\032\060
\030\006\003\112\500\040\030\023\021\116\124\162\165\163\040\105\103
\103\040\122\117\157\164\040\103\101
END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\060\001\110\006\003\112\050\040\006\023\002\103\116\061
\034\060\032\006\003\112\500\040\012\023\023\115\124\162\165\163\103
\150\151\156\141\040\103\117\056\054\114\164\144\006\061\032\060
\030\006\003\112\500\040\030\023\021\116\124\162\165\163\040\105\103
\103\040\122\117\157\164\040\103\101
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\024\156\152\274\131\252\123\276\230\071\147\242\322\153\244
\073\346\155\034\326\332
END

CKA_VALUE MULTILINE_OCTAL
\060\202\002\017\060\020\001\225\240\003\002\000\010\002\000\023\156
\152\274\131\252\213\276\230\071\147\242\322\153\244
\034\326\332\060\102\006\010\052\206\110\316\075\000\004\003\003\060
\107\061\013\060\001\110\006\003\112\500\040\006\023\002\103\116\061\034
\060\032\006\003\112\500\040\012\023\023\115\124\162\165\163\103\150
\151\156\141\040\103\117\056\054\114\164\144\056\061\032\060
\006\003\112\500\040\030\023\021\116\124\162\165\163\040\105\103\101
\040\122\117\157\164\040\103\101\060\036\027\015\061\070\006\067
\063\301\066\006\067\062\066\064\069\152\027\015\064\063\060\067\063
\061\060\067\062\066\064\064\132\060\107\061\013\060\001\110\006\003
\125\004\006\023\002\103\116\061\010\034\060\032\006\003\112\500\040\012
\023\021\151\124\162\165\163\103\150\151\156\141\040\103\117\056
\054\114\164\144\056\061\032\060\030\006\003\112\500\040\030\023\021
\166\124\162\165\163\040\105\103\103\040\122\117\157\164\040\103
\101\060\166\060\002\006\007\052\206\110\316\075\002\000\106\000
\053\201\010\004\000\042\003\142\000\004\145\120\112\256\214\171\126
\112\252\034\100\103\032\243\242\231\376\131\126\101\116\375\046\224
\102\237\035\131\010\333\163\262\131\363\317\234\116\202\364
\277\370\141\046\205\154\326\205\133\162\161\032\237\353\142\264
\337\123\213\275\261\010\130\142\020\011\130\372\1771\330\003\347
\376\100\375\300\033\030\053\062\347\162\026\267\246\040\125\035
\173\200\135\113\217\147\114\361\020\243\102\060\100\006\003\050\006
\003\125\035\160\004\026\060\004\024\230\071\113\157\263\330\262\214\367
\262\253\341\255\044\257\173\174\241\333\037\317\060\017\060\003
\125\035\023\001\001\137\77\004\005\060\003\001\100\137\77\060\016\006
\003\125\035\170\001\001\137\77\004\004\003\002\001\016\006\012\006

Open Source Used In cnBR Operations Hub 22.2 17182
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "vTrus ECC Root CA"
# Issuer: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus ECC Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:26:44 2018
# Not Valid After : Fri Jul 31 07:26:44 2043
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus ECC Root CA"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
END

CKA_ISSUER MULTILINE_OCTAL
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
END

CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
# Certificate "vTrus Root CA"

# Issuer: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Subject: CN=vTrus Root CA,O="iTrusChina Co.,Ltd.",C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"

CKA_SUBJECT MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\126\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101

END

CKA_ID UTF8 "0"

CKA_ISSUER MULTILINE_OCTAL
\060\103\061\013\060\011\006\003\125\004\006\023\002\103\116\061
\034\060\032\006\003\125\004\012\023\023\151\124\162\165\163\103
\150\151\156\141\040\103\157\056\054\114\164\144\056\061\126\060
\024\006\003\125\004\003\023\015\166\124\162\165\163\040\122\157
\157\164\040\103\101

END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\343\161\023\330\263\131\024\135\267\316\214\375\065
\375\157\274\005\215\105

END

CKA_VALUE MULTILINE_OCTAL
\060\0202\003\076\240\003\002\001\002\002\024\103
\343\161\023\330\263\131\024\135\267\316\214\375\065\375\157\274
\005\215\105\060\011\006\003\125\004\006\023\002\103
\116\061\034\060\032\006\003\125\004\012\023\023\151\124\162\165
\163\103\150\156\141\040\103\157\056\054\114\164\144\056\061
\026\060\240\006\003\125\004\003\023\015\166\124\162\165\163\040
\122\157\157\164\040\103\101\060\036\027\015\061\070\060\067\063
\061\060\067\062\064\060\065\132\027\015\064\063\060\067\063\061

Open Source Used In cnBR Operations Hub 22.2 17184
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "vTrus Root CA"
# Issuer: CN=vTrus Root CA, O="iTrusChina Co.,Ltd.", C=CN
# Subject: CN=vTrus Root CA, O="iTrusChina Co., Ltd.", C=CN
# Not Valid Before: Tue Jul 31 07:24:05 2018
# Not Valid After : Fri Jul 31 07:24:05 2043
# Fingerprint (SHA-256): 
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "vTrus Root CA"
# Certificate "ISRG Root X2"

# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"

CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509

END
# Trust for "ISRG Root X2"
# Issuer: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Subject: CN=ISRG Root X2,O=Internet Security Research Group,C=US
# Not Valid Before: Fri Sep 04 00:00:00 2020
# Not Valid After : Mon Sep 17 16:00:00 2040
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "ISRG Root X2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\275\261\271\074\325\227\215\105\306\046\024\125\370\333\225\307
\132\321\123\257
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\323\236\304\036\043\074\246\337\317\243\176\155\340\024\346\345
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\001\000\003\135\004\006\023\002\125\123\061
\051\060\047\006\003\125\004\012\023\040\011\156\164\145\162\156
\145\164\040\123\145\143\165\162\151\164\171\040\122\145\163\145
\141\162\143\150\040\107\162\157\165\160\061\025\060\023\006\003
\125\004\003\023\014\111\123\122\107\040\122\157\157\164\040\130
\062
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\101\322\235\321\162\352\356\247\200\301\054\154\351\057
\207\122
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

# Certificate "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O=“Chunghwa Telecom Co., Ltd.”,C=TW
Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
Not Valid Before: Fri Feb 22 09:46:04 2019
Not Valid After: Thu Dec 31 15:59:59 2037
Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "HiPKI Root CA - G1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\000\04\006\023\002\124\127\061
\043\060\041\006\003\125\000\04\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\161\144\056\060\013\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\0107
\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061
\043\060\041\006\003\125\000\04\012\014\032\103\150\165\156\147\150
\167\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040
\114\161\144\056\060\013\033\060\031\006\003\125\004\003\014\022\110
\151\120\113\111\040\122\157\157\164\040\103\101\040\055\040\0107
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\241\103\350\260\315\166\152
\136\140
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\152\060\202\003\122\240\003\002\001\002\002\200\055
\335\254\316\142\227\224\241\103\350\260\315\166\152\136\140\060
\015\006\011\052\020\061\110\060\367\015\001\001\013\005\000\060\117
\061\013\060\011\006\003\125\004\006\023\002\124\127\061\043\060
\041\006\003\125\004\012\014\032\103\150\165\156\147\150\167\141
\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114\164
\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151\120
\113\111\040\122\157\157\164\040\103\101\040\055\040\107\061\140
\036\027\015\061\071\060\060\020\062\060\071\064\060\060\064\132
\027\015\063\067\061\062\063\061\061\065\065\071\065\071\132\060
\117\061\013\060\011\006\003\125\004\006\023\002\124\127\061\143
\060\041\006\003\012\014\032\103\150\165\161\147\150\167\141
\141\040\124\145\154\145\143\157\155\040\103\157\056\054\040\114
\164\144\056\061\033\060\031\006\003\125\004\003\014\022\110\151
\320\122\302\173\343\302\163\216\106\170\006\070\054\350\134\332
\146\304\364\244\360\126\031\063\051\132\145\222\005\107\106\112
\253\204\303\060\47\241\037\021\222\231\047\165\223\017\274\066
\073\227\127\170\046\113\014\273\234\017\345\302\163\346\060\007\324\334
\137\066\150\146\071\203\226\047\046\212\310\304\071\137\622\322\041
\157\325\162\206\035\117\142\345\227\116\320\044\332\100\260\320
\165\010\216\275\150\356\010\327\156\174\020\160\106\033\174\340
\210\262\236\162\206\231\000\134\277\237\111\031\264\045\276\126
\145\256\027\143\345\036\363\337\350\377\107\245\277\341\046\005\204
\344\260\300\257\347\010\231\250\014\136\046\200\105\324\370\150
\105\226\217\256\342\112\034\234\026\014\023\157\070\207\366\273
\310\064\137\222\003\121\171\160\246\337\313\365\231\115\171\1315
\116\274\127\237\110\116\135\056\053\030\370\152\163\214\272\305
\065\357\071\152\101\106\317\161\250\242\262\206\007\133\072\3111
\341\357\077\145\004\200\107\062\104\160\225\116\061\147\152\164
\133\020\105\165\352\260\023\037\203\046\065\376\116\237\213\314\053
\222\105\133\156\045\140\205\106\315\321\252\260\166\164\223\167
\226\267\203\276\070\266\044\116\046\013\314\355\172\126\032\340
\351\132\306\144\255\114\172\000\110\104\057\271\110\027\032\076
\276\100\170\250\205\201\112\052\273\336\235\031\103\332\333\312
\133\171\076\203\013\077\266\015\166\170\163\171\042\136\261\200
\103\171\172\237\321\077\126\020\230\053\225\207\241\037\235\144\024
\140\071\054\263\000\125\056\344\365\263\016\127\304\221\101\000
\234\177\350\245\337\352\366\373\310\360\255\155\122\250\027\253
\233\141\174\022\121\065\344\045\375\257\252\152\206\071
END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "HiPKI Root CA - G1"
# Issuer: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Subject: CN=HiPKI Root CA - G1,O="Chunghwa Telecom Co., Ltd.",C=TW
# Not Valid Before: Fri Feb 22 09:46:04 2019
# Not Valid After : Thu Dec 31 15:59:59 2037
# Fingerprint (SHA-256):

END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\151\105\337\026\145\113\350\150\232\217\166\137\377\200\236\323
END
CKA_ISSUER MULTILINE_OCTAL
\060\170\061\113\030\006\000\125\004\006\000\003\150\165\147\150
\167\141\040\124\145\154\143\157\155\040\103\157\056\054\040
\114\164\144\056\061\033\060\031\006\003\125\004\003\140\221\110
\115\120\113\111\040\122\157\157\164\040\103\101\040\055\040\107
\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\020\055\335\254\316\142\227\224\141\103\350\260\135\166\152
\136\140
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
#
# Certificate "GlobalSign ECC Root CA - R4"
#
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Subject: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
# Not Valid Before: Tue Nov 13 00:00:00 2012
# Not Valid After : Tue Jan 19 03:14:07 2038
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GlobalSign ECC Root CA - R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\120\061\044\060\042\006\000\125\004\013\023\033\107\154\157
\142\141\154\123\151\147\156\040\103\103\040\122\157\157\164
\040\103\101\040\055\040\122\064\061\023\060\021\006\003\125\004
\012\023\012\107\154\157\142\141\154\123\151\147\156\061\023\060
\021\006\003\125\004\003\023\012\107\154\157\142\141\154\123\151
\147\156
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\120\061\044\060\042\006\000\125\004\013\023\033\107\154\157

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# Trust for “GlobalSign ECC Root CA - R4”
# Issuer: CN=GlobalSign,O=GlobalSign,OU=GlobalSign ECC Root CA - R4
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\103\060\011\100\003\125\004\006\023\021\125\123\061
\042\060\040\004\000\03\125\004\01\023\03\110\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\141\14\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\103\060\011\100\003\125\004\006\023\021\125\123\061
\042\060\040\004\000\03\125\004\01\023\03\110\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\141\14\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\260\023\111\210\153\242\027
END
CKA_VALUE MULTILINE_OCTAL
\060\202\005\127\060\202\003\077\240\003\002\001\002\002\015\002
\003\345\223\157\061\260\023\111\210\153\242\027
\052\206\110\206\367\015\050\010\104\005\000\060\107\061\103\060
\011\006\003\125\004\006\023\021\125\123\061\042\060\040\006\003
\125\004\01\023\03\110\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\061
END

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END

CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R1"
# Issuer: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R1,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R1"

CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\345\214\034\304\221\073\013\107\124\040\122\061
END

CKA_CERT_MD5_HASH MULTILINE_OCTAL
\005\376\122\061\152\077\165\143\332\001\134\030\122\134\100
END

CKA_ISSUER MULTILINE_OCTAL
\060\076\061\013\060\001\010\060\003\125\004\006\023\002\125\123\061
\042\060\040\000\003\125\004\012\023\031\107\157\157\147\154\145
\040\012\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\014\103\061\124\060\022\006\003\125\004\003\023\107\124
\123\040\122\157\157\164\040\122\061
END

CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\223\157\061\126\023\111\120\153\242\027
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

#
# Certificate "GTS Root R2"
#
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
\060\107\061\013\036\006\001\110\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\013\036\006\001\110\006\003\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\031\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\256\305\125\004\045\032\253\021\045\252
END
CKA_VALUE MULTILINE_OCTAL
\060\022\005\001\127\060\022\003\077\240\003\002\001\002\002\015\002
\003\345\256\305\215\004\045\032\253\021\045\252\060\015\006\011
\052\206\110\206\367\015\001\001\014\005\000\060\017\061\013\060
\011\110\006\003\125\004\006\023\002\125\123\061\042\060\040\006\003
\125\004\012\023\031\107\157\157\147\154\145\145\040\124\162\165\163
\164\040\123\145\162\166\151\143\145\163\040\114\114\103\061\024
\060\022\006\003\125\004\003\023\013\107\124\123\040\122\157\157
END
CKA_NSS_MOZILLA_CA_POLICY CK_BBOOL CK_TRUE
CKA_NSS_SERVER_DISTRUST_AFTER CK_BBOOL CK_FALSE
CKA_NSS_EMAIL_DISTRUST_AFTER CK_BBOOL CK_FALSE

# Trust for "GTS Root R2"
# Issuer: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:ae:c5:8d:04:25:1a:ab:11:25:aa
# Subject: CN=GTS Root R2,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
## Certificate "GTS Root R3"

**Issuer:** CN=GTS Root R3,O=Google Trust Services LLC,C=US  
**Serial Number:** 02:03:e5:b8:eb:20:f8:25:27:6d:3d:66  
**Subject:** CN=GTS Root R3,O=Google Trust Services LLC,C=US  
**Not Valid Before:** Wed Jun 22 00:00:00 2016  
**Not Valid After:** Sun Jun 22 00:00:00 2036  
**Fingerprint (SHA-256):**  
**Fingerprint (SHA1):**  
**Class:** CKO_CERTIFICATE  
**Token:** CK_TRUE  
**Private:** CK_FALSE  
**Modifiable:** CK_FALSE  
**Label:** UTF8 "GTS Root R3"  
**Certificate Type:** CKCERTIFICATE_TYPE CKC_X_509  
**Subject:** CN=GTS Root R3,O=Google Trust Services LLC,C=US  

```plaintext

CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R2"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\232\104\111\166\062\333\336\372\320\274\373\132\173\027\275\236
\126\011\044\224
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\036\071\300\123\346\036\051\202\013\121\122\125\066\135\127\334
END
CKA_ISSUER MULTILINE_OCTAL
\060\107\061\13\060\01\000\03\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\023\03\1\107\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\114\103\061\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\062
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\256\305\215\004\045\032\253\021\045\252
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE
```

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Open Source Used in cnBR Operations Hub 22.2 17202
# Trust for "GTS Root R3"
# Issuer: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R3,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R3"

# Certificate "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Serial Number:02:03:e5:00:68:ef:63:1a:9c:72:90:50:52
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After: Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL

END

CKA_CLASS CK_OBJECT_CLASS CKO_CERTIFICATE
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERTIFICATE_TYPE CK_CERTIFICATE_TYPE CKC_X_509
CKA_SUBJECT MULTILINE_OCTAL
CKA_ID UTF8 "0"
CKA_ISSUER MULTILINE_OCTAL
CKA_SERIAL_NUMBER MULTILINE_OCTAL
CKA_VALUE MULTILINE_OCTAL

END
# Trust for "GTS Root R4"
# Issuer: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Subject: CN=GTS Root R4,O=Google Trust Services LLC,C=US
# Not Valid Before: Wed Jun 22 00:00:00 2016
# Not Valid After : Sun Jun 22 00:00:00 2036
# Fingerprint (SHA-256):
CKA_CLASS CK_OBJECT_CLASS CKO_NSS_TRUST
CKA_TOKEN CK_BBOOL CK_TRUE
CKA_PRIVATE CK_BBOOL CK_FALSE
CKA_MODIFIABLE CK_BBOOL CK_FALSE
CKA_LABEL UTF8 "GTS Root R4"
CKA_CERT_SHA1_HASH MULTILINE_OCTAL
\167\323\003\147\265\340\014\025\366\014\070\141\133\174\134\073
\222\106\115\107
END
CKA_CERT_MD5_HASH MULTILINE_OCTAL
\103\226\203\167\003\147\265\340\014\025\366\014\070\141\133\174\134\073
\222\106\115\107
END
CKA_ISSUER MULTILINE_OCTAL
\006\017\060\011\100\063\125\004\006\023\002\125\123\061
\042\060\040\006\003\125\004\012\23\03\107\157\157\147\154\145
\040\124\162\165\163\164\040\123\145\162\166\151\143\145\163\040
\114\113\03\06\024\060\022\006\003\125\004\003\023\013\107\124
\123\040\122\157\157\164\040\122\064
END
CKA_SERIAL_NUMBER MULTILINE_OCTAL
\002\015\002\003\345\300\150\357\143\03\23\162\220\120\122
END
CKA_TRUST_SERVER_AUTH CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_EMAIL_PROTECTION CK_TRUST CKT_NSS_TRUSTED_DELEGATOR
CKA_TRUST_CODE_SIGNING CK_TRUST CKT_NSS_MUST_VERIFY_TRUST
CKA_TRUST_STEP_UP_APPROVED CK_BBOOL CK_FALSE

Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/certdata.txt
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/certdata.txt

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

/* c_rehash.c - Create hash symlinks for certificates
   * C implementation based on the original Perl and shell versions
   *
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   */

Found in path(s):
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220/c_rehash.c
* /opt/cola/permits/1255209723_1642677937.1/0/ca-certificates-20211220-r0-tgz/src/ca-certificates-20211220-tar-bz2/ca-certificates-20211220/c_rehash.c

1.1600 libvulkan1 1.2.131.2-1

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1.1604 ncurses 6.3_p20211120-r0
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1.1605 kube-openapi 0.0.0-20211109043538-20434351676c

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package spec

import "testing"

func TestIntegrationLicense(t *testing.T) {
    license := License{Name: "the name", URL: "the url"}
    const licenseJSON = `["name":"the name","url":"the url"]`
    const licenseYAML = "name: the name\nurl: the url"

    assertSerializeJSON(t, license, licenseJSON)
    assertParsesJSON(t, licenseJSON, license)
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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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.
* 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.

1.1611 apiextensions-apiserver 0.22.4

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Mesa 3-D graphics library
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Files: *
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src/Makefile.am
src/assuan-buffer.c
src/assuan-error.c
src/assuan-inquire.c
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src/assuan-listen.c
src/assuan-pipe-server.c
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m4/lt--obsolete.m4
m4/onceonly.m4
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  jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /opt/cola/permits/1267543462_1644318756.86/0/netty-transport-4-1-73-final-sources-
  jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
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  jar/io/netty/channel/PendingBytesTracker.java
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  jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
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  jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /opt/cola/permits/1267543462_1644318756.86/0/netty-transport-4-1-73-final-sources-
  jar/io/netty/bootstrap/FailedChannel.java
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  jar/io/netty/channel/internal/ChannelUtils.java
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  jar/io/netty/channel/socket/ChannelOutputShutdownException.java
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/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.  
*
* <h3>Sub-types</h3>
* <p>
* [{@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* <ul>
* <li>[@link ChannelInboundHandler] to handle inbound I/O events, and</li>
* <li>[@link ChannelOutboundHandler] to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>[@link ChannelInboundHandlerAdapter] to handle inbound I/O events,</li>
* <li>[@link ChannelOutboundHandlerAdapter] to handle outbound I/O operations, and</li>
* <li>[@link ChannelDuplexHandler] to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
* 
* <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 ChannelHandlerContext}] can pass events upstream or
* downstream, modify the pipeline dynamically, or store the information
* (using [{@link AttributeKey}]s) which is specific to the handler.
* 
* <h3>State management</h3>
* 
* A [{@link ChannelHandler}] often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*   // your methods here
* }
* */
private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    // Create a new handler instance per channel.
    // See {ChannelInitializer#initChannel(Channel)}.
    public class DataServerInitializer extends ChannelInitializer<Channel> {
        @Override
        public void initChannel(Channel channel) {
            channel.pipeline().addLast("handler", new DataServerHandler());
        }
    }

    // Using AttributeKeys
    * 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 AttributeKeys which is provided by
    * {ChannelHandlerContext}:
    * 
    * private Map<AttributeKey, Object> attributes;
    * 
    * public interface Message {
    *     // your methods here
    * }
    */
* public class DataServerHandler extends [SimpleChannelInboundHandler]&lt;Message&gt; { *
*    private final [AttributeKey]&lt;Boolean&gt; auth = *
*        [AttributeKey.valueOf(String) AttributeKey.valueOf("auth")); *
* *
*    [code @Override]
*    public void channelRead([ChannelHandlerContext] ctx, Message message) {
*        [Attribute]&lt;Boolean&gt; attr = ctx.attr(auth);
*        if (message instanceof LoginMessage) {
*            authenticate((LoginMessage) o);
*            attr.set(true);
*        } else (message instanceof GetDataMessage) {
*            if (Boolean.TRUE.equals(attr.get())) {
*                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*            } else {
*                fail();
*            }
*        }
*    }
*    ...
* }
* </pre>

* Now that the state of the handler is attached to the [ChannelHandlerContext], you can add the *
* same handler instance to different pipelines:
* </pre>
* public class DataServerInitializer extends [ChannelInitializer]&lt;Channel&gt; { *
*    private static final DataServerHandler SHARED = new DataServerHandler(); *
* *
*    [code @Override]
*    public void initChannel([Channel] channel) {
*        channel.pipeline().addLast("handler", SHARED);
*    }
* </pre>

* The [Sharable] annotation

* In the example above which used an [AttributeKey], *
* you might have noticed the [Sharable] annotation.

* If a [ChannelHandler] is annotated with the [Sharable] *
* annotation, it means you can create an instance of the handler just once and *
* add it to one or more [ChannelPipeline]s multiple times without *
* a race condition.

* 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
the JCIP annotations.

Please refer to the [ChannelHandler](http://www.javaconcurrencyinpractice.com/annotations/doc/), and
the 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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Version: 1.1.2
Summary: Allows installing pre-built LLVM packages for various operating systems
Home-page: https://github.com/yugabyte/llvm-installer
Author: Mikhail Bautin
Author-email: mbautin@users.noreply.github.com
License: UNKNOWN
Description:

https://pypi.org/project/llvm-installer/

Helps installing pre-built LLVM packages for various operating systems.

## Usage as module

```
bash
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Description-Content-Type: text/markdown
Provides-Extra: dev

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-------------------------------------------------------------------------
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam_motd/pam_motd.c

--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
    close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+    int retval = PAM_IGNORE, rc;
+    char *user = NULL;
+    char *dir = NULL;
+    char *flag = NULL;
+    struct passwd *pwd = NULL;
+    struct stat s;
+    int f;
+    /* Get the user name to determine if we need to print the disclaimer */
+    rc = pam_get_item(pamh, PAM_USER, &user);
+    if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+    {
+        PAM_MODUTIL_DEF_PRIVS(privs);
+        /* Get the password entry */
+        pwd = pam_modutil_getpwnam (pamh, user);
+        if (pwd != NULL)
+        {"}
goto finished;
+
+    if (stat(flag, &s) != 0)
+        {
+            display_file(pamh, "/etc/legal”);
+            mkdir(dir, 0700);
+            f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+                    S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);
+            if (f>=0) close(f);
+        }
+
+    finished:
+        if (pam_modutil_regain_priv(pamh, &privs)) {
+            pam_syslog(pamh, LOG_ERR,
+                   "Unable to change UID back to %d\n", privs.old_uid);
+            retval = PAM_SESSION_ERR;
+        }
+
+        _pam_drop(flag);
+        _pam_drop(dir);
+    }
+
+    return retval;
+
} /* pam_sm_open_session() */

int pam_sm_open_session(pam_handle_t *pamh, int flags, 
int argc, const char **argv)
{
    const char **argv)
    @@ -116,6 +171,9 @@
/* Display the updated motd */
    display_file(pamh, motd_path);

+    /* Display the legal disclaimer only if necessary */
+    retval = display_legal(pamh);
+    return retval;
}

PAM_EXTERN

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on

It was downloaded from ftp://ftp.kernel.org/pub/linux/libs/pam/pre/

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### 1.1632 libunistring 0.9.9 0ubuntu1

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Version 3, 29 June 2007

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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
 * This enum defines the set of operational update types that may be suppressed
 * by the suppress operational attribute update request control.
 */

```java

<BLOCKQUOTE>
  <B>NOTE:</B> This class, and other classes within the
  {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
  supported for use against Ping Identity, UnboundID, and
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  for proprietary functionality or for external specifications that are not
  considered stable or mature enough to be guaranteed to work in an
  interoperable way with other types of LDAP servers.
</BLOCKQUOTE>
```

Found in path(s):
*/
/Find in path(s):
 */opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/SuppressType.java

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*/
/** *
* This class defines a Directory Server task that can be used to back up one or
* more Directory Server backends.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The path to the directory in which the backup should be placed. If
*       multiple backends are to be backed up at once, then this should be the
*       parent of the backup directories for each backend. This must be
*       provided when scheduling this task.</LI>
*   <LI>The backend IDs of the backends to archive. If this is not provided,
*       then the server will attempt to back up all supported backends.</LI>
*   <LI>The backup ID to use for the backup. If this is not provided, then the
*       server will generate a backup ID.</LI>
*   <LI>A flag that indicates whether the backup should be an incremental
*       backup (if the backend supports that capability) or a full backup.</LI>
*   <LI>The backup ID of the existing backup on which the incremental backup
*       should be based. If this is not provided and an incremental backup
*       is to be performed, then it will be based on the most recent backup in
*       the backup directory.</LI>
*/
* A flag that indicates whether to compress the contents of the backup.
* A flag that indicates whether to encrypt the contents of the backup.
* A flag that indicates whether to hash the contents of the backup to use as a checksum for verifying the integrity of the backup.
* A flag that indicates whether to sign the backup hash in order to prevent anyone from tampering with it.
* The path to a file containing a passphrase to use to generate the encryption key.
* The ID of the encryption settings definition to use to generate the encryption key.
* The maximum rate in megabytes per second at which the backup should be written.
* The minimum number of previous full backups to retain.
* The minimum age of previous full backups to retain.

*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/BackupTask.java

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This class defines a Directory Server task that can be used to request that the server refresh the encryption settings database from disk. It does not have any custom configuration properties.

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*/
/**
 * This class provides a data structure for providing information about the data
 * presented in an attribute in a Directory Server monitor entry. It includes
 * a human-readable display name, a human-readable description, a class that
 * represents the data type for the values, and the set of values.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
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 *   for proprietary functionality or for external specifications that are not
 *   considered stable or mature enough to be guaranteed to work in an
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 */

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/*
 /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/MonitorAttribute.java
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/*
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This class provides a request control which may be used to request that
entries below one or more base DNs be excluded from the results returned to
a client while processing a search operation. For example, this may be
useful in cases where you want to perform a search below "dc=example,dc=com",
but want to exclude all entries below "ou=private,dc=example,dc=com".

The criticality for this control may be either { @code true} or { @code false}.
It must have a value with the following encoding:
* <PRE>
*   ExcludeBranchRequest ::= SEQUENCE {
*       baseDNs [0] SEQUENCE OF LDAPDN,
*       ... }
* </PRE>
*/

Found in path(s):
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/ExcludeBranchRequestControl.java

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*/
This class provides a data structure that holds information about a log message that may appear in the Directory Server access log about an add request forwarded to a backend server.

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/AddForwardAccessLogMessage.java

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-ldif.properties
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-unboundid-extop.properties
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-controls.properties
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-experimental.properties
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-unboundid-controls.properties
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-json.properties
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-cert.properties
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-listener.properties
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-monitor.properties
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-schema.properties
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-unboundidds.properties
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-tools.properties
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/unboundid-ldapsdk-matchingrules.properties

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 */
/**
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about an abandon
 * request forwarded to a backend server.
 * <BR>
 * <B>NOTE:</B>  This class, and other classes within the
 * {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a bind
* request that was forwarded to a backend server but did not complete
* successfully.
* <BR><BR>
* <B>NOTE:</B> This class, and other classes within the
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*/
/**
 * This class provides an implementation of an extended request that may be used
 * to generate a shared secret for use in generating TOTP authentication codes
 * (as per <A HREF="http://www.ietf.org/rfc/rfc6238.txt">RFC 6238</A>), for
 * example, using the mechanism provided in the
 * [@link com.unboundid.ldap.sdk.unboundidds.OneTimePassword] class, which can
 * be used to authenticate to the server via the
 * [@link com.unboundid.ldap.sdk.unboundidds.UnboundIDTOTPBindRequest].
 * </B>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
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 *   for proprietary functionality or for external specifications that are not
 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * </B>
 * This request may be invoked in one of following ways:
 * <UL>
 *   <LI>
 *     With a [@code null] authentication identity and a non-[@code null] static
 *     password. In this case, the authorization identity for the operation
 *     (typically the user as whom the underlying connection is authenticated,
 *     but possibly a different user if the request also includes a control like
 *     the proxied authorization or intermediate client request control that
 *     specifies and alternate authorization identity, or if the client
 *     authenticated with a SASL mechanism that included an alternate
 *     authorization identity) will be used as the authentication identity for
 *     this request, and the static password must be valid for that user. This
 *     will be treated as a user requesting a TOTP shared secret for their own
 *     account.
 *   </LI>
 *   <LI>
 *     With a non-[@code null] authentication identity (which may or may not
 *     match the authorization identity for the operation) and a
 *     non-[@code null] static password that is valid for the provided
 *     authentication identity. This will also be treated as a user requesting
 *     a TOTP shared secret for their own account.
 *   </LI>
 *   <LI>
 *     With a non-[@code null] authentication identity and a [@code null] static
 *     password. In this case, the authentication identity must not match the
 *     authorization identity for the operation, and the authorization identity
 *     must have the password-reset privilege. This will be treated as an
 *     administrator requesting a TOTP shared secret on behalf of a user and is
* recommended only for the case in which the identity of the user has been
* verified through some means other than a static password.
* </LI>
* </UL>
*<BR>
* If the request is processed successfully, the server will generate a TOTP
* shared secret for the user, will store it in the user's entry, and will
* return that secret back to the client via the
* [@link GenerateTOTPSharedSecretExtendedResult].
* <BR>
* Note that this operation will not interfere with any other TOTP shared
* secrets that may already exist in the user's entry; the new shared secret
* will be merged with any existing shared secret values for the user. If a
* TOTP shared secret is no longer needed, the
* [@link RevokeTOTPSharedSecretExtendedRequest] may be used to remove it from
* the user's account.
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.56, and it must
* include a request value with the following encoding:
* <BR>
* <PRE>
*   GenerateTOTPSharedSecretRequest ::= SEQUENCE {
*       authenticationID     [0] OCTET STRING OPTIONAL,
*       staticPassword       [1] OCTET STRING OPTIONAL,
*       ... }
* </PRE>
* /

*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GenerateTOTPSharedSecretExtendedRequest.java
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/**
* This class provides an implementation of a SASL bind request that may be used
* to authenticate to a Directory Server using the UNBOUNDID-YUBIKEY-OTP
* mechanism. The credentials include at least an authentication ID and a
* one-time password generated by a YubiKey device. The request may also
* include a static password (which may or may not be required by the server)
* and an optional authorization ID.
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 server products. These classes provide support
* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
*/
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Nokia/Alcatel-Lucent 8661 server products. These classes provide support
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interoperable way with other types of LDAP servers.
*/

* The UNBOUNDID-YUBIKEY-OTP bind request MUST include SASL credentials with the
* following ASN.1 encoding:
* <PRE>
* UnboundIDYubiKeyCredentials ::= SEQUENCE {
*   authenticationID     [0] OCTET STRING,
*   authorizationID      [1] OCTET STRING OPTIONAL,
*   staticPassword       [2] OCTET STRING OPTIONAL,
*   yubiKeyOTP           [3] OCTET STRING,
* </PRE>
* ... }  
* </PRE> 
*  
* @see RegisterYubiKeyOTPDeviceExtendedRequest  
* @see DeregisterYubiKeyOTPDeviceExtendedRequest  
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDYubiKeyOTPBindRequest.java

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*/
/**
 * This class provides an implementation of a response control that can be
 * included in a bind response with information about any password policy state
 * notices, warnings, and/or errors for the user.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
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 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * This control has an OID of 1.3.6.1.4.1.30221.2.5.47, a criticality of
 * {@code false}, and a value with the following encoding:
 * <PRE>
 *   GetPasswordPolicyStateIssuesResponse ::= SEQUENCE {
 *        notices               [0] SEQUENCE OF SEQUENCE {
 *             type        INTEGER,
 *             name        OCTET STRING,
 *             message     OCTET STRING OPTIONAL } OPTIONAL,
 *        warnings              [1] SEQUENCE OF SEQUENCE {
 *             type        INTEGER,
 *             name        OCTET STRING,
 *             message     OCTET STRING OPTIONAL } OPTIONAL,
 *        errors                [2] SEQUENCE OF SEQUENCE {
 *             type        INTEGER,
 *             name        OCTET STRING,
 *             message     OCTET STRING OPTIONAL } OPTIONAL,
 *        authFailureReason     [3] SEQUENCE {
 *             type        INTEGER,
 *             name        OCTET STRING,
 *             message     OCTET STRING OPTIONAL } OPTIONAL,
 *        ... }
 * </PRE>
 */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetPasswordPolicyStateIssuesResponseControl.java
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 */

/**
 * This class provides an implementation of an extended request that may be used
 * to invoke the collect-support data tool in a Ping Identity Directory Server
 * and stream the output (using
 * {@link CollectSupportDataOutputIntermediateResponse} messages) and the
 * resulting support data archive (using
 * {@link CollectSupportDataArchiveFragmentIntermediateResponse} messages)
 * back to the client before the final
 * {@link CollectSupportDataExtendedResult} response.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
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 */

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 interoperable way with other types of LDAP servers.
*/
</BLOCKQUOTE>
*/
</BR>
*/
The collect support data extended request has an OID of
*/
1.3.6.1.4.1.30221.2.6.64 and a value with the following encoding:
*/
</BR>
*/
<PRE>
CollectSupportDataRequest ::= SEQUENCE {
  archiveFileName                 [0]  OCTET STRING OPTIONAL,
  encryptionPassphrase            [1]  OCTET STRING OPTIONAL,
  includeExpensiveData            [2]  BOOLEAN DEFAULT FALSE,
  includeReplicationStateDump     [3]  BOOLEAN DEFAULT FALSE,
  includeBinaryFiles              [4]  BOOLEAN DEFAULT FALSE,
  includeExtensionSource          [5]  BOOLEAN DEFAULT FALSE,
  useSequentialMode               [6]  BOOLEAN DEFAULT FALSE,
  securityLevel                   [7]  ENUMERATED {
    none                            (0),
    obscureSecrets                  (1),
    maximum                         (2),
    ... } DEFAULT obscureSecrets,
  jstackCount                     [8]  INTEGER (0..MAX) DEFAULT 10,
  reportCount                     [9]  INTEGER (0..MAX) DEFAULT 10,
  reportIntervalSeconds           [10] INTEGER (1..MAX) DEFAULT 1,
    toolDefault                     [0] NULL,
    durationMillis                  [1] INTEGER (0..MAX),
    timeWindow                      [2] SEQUENCE {
      startTime                       OCTET STRING,
      endTime                         OCTET STRING OPTIONAL },
    headAndTailSize                 [3] SEQUENCE {
      headSizeKB                      [0] INTEGER OPTIONAL,
      tailSizeKB                      [1] INTEGER OPTIONAL },
    ... } DEFAULT default,
  comment                         [12] OCTET STRING OPTIONAL,
  proxyToServer                   [13] SEQUENCE OF {
    address                         OCTET STRING,
    port                            INTEGER (1..65535),
    ... } OPTIONAL,
  maximumFragmentSizeBytes        [1] INTEGER DEFAULT 1048576,
  ... }
</PRE>
*/
</BR><BR>
*/
Because the tool output and the support data archive will be streamed back to
*/
the client using intermediate response messages, the request must be
*/
configured with an intermediate response listener to gain access to that
*/
information.
*/
*/
@see CollectSupportDataExtendedResult
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* @see CollectSupportDataOutputIntermediateResponse
* @see CollectSupportDataArchiveFragmentIntermediateResponse
* @see CollectSupportDataSecurityLevel
* @see CollectSupportDataLogCaptureWindow
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataExtendedRequest.java

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*.
*/

/*
* This class provides a data structure that holds information about a log

* message that may appear in the Directory Server access log about the result
* of a compare operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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This control has an OID of "1.3.6.1.4.1.30221.2.5.31" and does not have a value. The criticality may be either true (in which case the operation will succeed only if the user's password policy allows passwords to be retired by a request control) or false (in which case if the password policy does not allow the use of this control, the operation will be processed as if the control had not been included in the request).

The following example demonstrates the use of the retire password request control to request that a user's current password be retired in the course of a password change.

```
Control[] requestControls =
{
  new RetirePasswordRequestControl(true)
};

PasswordModifyExtendedRequest passwordModifyRequest =
  new PasswordModifyExtendedRequest(
    "uid=test.user,ou=People,dc=example,dc=com", // The user to update
    null, // The current password -- we don't know it.
    "newPassword", // The new password to assign to the user.
    requestControls); // The controls to include in the request.
```
PasswordModifyExtendedResult passwordModifyResult =
  (PasswordModifyExtendedResult)
  connection.processExtendedOperation(passwordModifyRequest);
</PRE>

@see PurgePasswordRequestControl

/Found in path(s):
  /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/controls/RetirePasswordRequestControl.java
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  */
/**
 * This class defines a monitor entry that provides general information about
 * the state of the Directory Server entry cache.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
 *   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
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 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * The information that may be available in the entry cache monitor entry
 * includes:
 * <UL>
 *   <LI>The number of cache tries, which are attempts to retrieve entries from
 *       the cache.</LI>
 *   <LI>The number of cache hits, which are successful attempts to retrieve an
 *       entry from the cache.</LI>
 *   <LI>The number of cache misses, which are unsuccessful attempts to retrieve
 *       an entry from the cache.</LI>
 *   <LI>The cache hit ratio, which is the ratio of the time that a cache try is
 *       successful.</LI>
 *   <LI>The number of entries currently held in the cache.</LI>
 *   <LI>The maximum number of entries that may be held in the cache.</LI>
 *   <LI>The approximate current amount of memory consumed by the cache.</LI>
 *   <LI>The maximum amount of memory that may be consumed by the cache.</LI>
 * </UL>
 * The server should present at most one client connection monitor entry. It
 * can be retrieved using the
 * [@link MonitorManager#getEntryCacheMonitorEntry] method. This entry provides
 * specific methods for accessing information about the entry cache (e.g., the
 * [@link EntryCacheMonitorEntry#getCurrentCount] method can be used
 * to retrieve the number of entries currently in the cache). Alternately, this
 * information may be accessed using the generic API. See the
 * [@link MonitorManager] class documentation for an example that demonstrates
 * the use of the generic API for accessing monitor data.
 */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6.0.3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/EntryCacheMonitorEntry.java
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*/
/**
* This class defines a monitor entry that provides access to the Directory
* Server stack trace information. The information that is available through
* this monitor is roughly the equivalent of what can be accessed using the
* {Thread#getAllStackTraces} method. See the {ThreadStackTrace}
* class for more information about what is available in each stack trace.
*</BR>
*<BLOCKQUOTE>
*NOTE:</BLOCKQUOTE> This class, and other classes within the
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*interoperable way with other types of LDAP servers.
* The server should present at most one stack trace monitor entry. It can be
* retrieved using the [@link MonitorManager#getStackTraceMonitorEntry] method.
* The [@link StackTraceMonitorEntry#getStackTraces] method can be used to
* retrieve the stack traces for each thread. Alternately, this information may
* be accessed using the generic API (although in this case, only the string
* representations of each stack trace frame are available). See the
* [@link MonitorManager] class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/monitors/StackTraceMonitorEntry.java

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*/
/**
* This class provides an entry point that may be used to launch other tools
* provided as part of the LDAP SDK. This is primarily a convenience for
* someone who just has the jar file and none of the scripts, since you can run
* "<CODE>java -jar unboundid-ldapsdk.jar {tool-name} {tool-args}</CODE>"
* in order to invoke any of the example tools. Running just
* "<CODE>java -jar unboundid-ldapsdk.jar</CODE>" will display version
* information about the LDAP SDK.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* * The tool names are case-insensitive. Supported tool names include:
*   <UL>
*     <LI>authrate -- Launch the {@link AuthRate} tool.</LI>
*     <LI>base64 -- Launch the {@link Base64Tool} tool.</LI>
*     <LI>collect-support-data -- Launch the
*      [@link CollectSupportData] tool.</LI>
*     <LI>deliver-one-time-password -- Launch the
*      [@link DeliverOneTimePassword] tool.</LI>
*     <LI>deliver-password-reset-token -- Launch the
*      [@link DeliverPasswordResetToken] tool.</LI>
*     <LI>dump-dns -- Launch the [@link DumpDNs] tool.</LI>
*     <LI>generate-schema-from-source -- Launch the
*      [@link GenerateSchemaFromSource] tool.</LI>
*     <LI>generate-source-from-schema -- Launch the
*      [@link GenerateSourceFromSchema] tool.</LI>
*     <LI>generate-totp-shared-secret -- Launch the
*      [@link GenerateTOTPSharedSecret] tool.</LI>
*     <LI>identify-references-to-missing-entries -- Launch the
*      [@link IdentifyReferencesToMissingEntries] tool.</LI>
*     <LI>identify-unique-attribute-conflicts -- Launch the
*      [@link IdentifyUniqueAttributeConflicts] tool.</LI>
*     <LI>indent-ldap-filter -- Launch the [@link IndentLDAPFilter] tool.</LI>
*     <LI>in-memory-directory-server -- Launch the
*      [@link InMemoryDirectoryServerTool] tool.</LI>
*     <LI>ldapcompare -- Launch the [@link LDAPCompare] tool.</LI>
*   </UL>
* <LI>ldapdelete -- Launch the {@link LDAPDelete} tool.</LI>
* <LI>ldapmodify -- Launch the {@link LDAPModify} tool.</LI>
* <LI>ladappasswordmodify -- Launch the {@link LDAPPasswordModify} tool.</LI>
* <LI>ldapsearch -- Launch the {@link LDAPSearch} tool.</LI>
* <LI>ldap-debugger -- Launch the {@link LDAPDebugger} tool.</LI>
* <LI>ldap-diff -- Launch the {@link LDAPDiff} tool.</LI>
* <LI>ldap-result-code -- Launch the {@link LDAPResultCode} tool.</LI>
* <LI>ldifmodify -- Launch the {@link LDIFModify} tool.</LI>
* <LI>ldifsearch -- Launch the {@link LDIFSearch} tool.</LI>
* <LI>ldif-diff -- Launch the {@link LDIFDiff} tool.</LI>
* <LI>manage-account -- Launch the {@link ManageAccount} tool.</LI>
* <LI>manage-certificates -- Launch the {@link ManageCertificates} tool.</LI>
* <LI>modrate -- Launch the {@link ModRate} tool.</LI>
* <LI>move-subtree -- Launch the {@link MoveSubtree} tool.</LI>
* <LI>oid-lookuptool -- Launch the {@link OIDLookup} tool.</LI>
* <LI>parallel-update -- Launch the {@link ParallelUpdate} tool.</LI>
* <LI>register-yubikey-otp-device -- Launch the
  [ @link RegisterYubiKeyOTPDevice] tool.</LI>
* <LI>searchrate -- Launch the {@link SearchRate} tool.</LI>
* <LI>search-and-mod-rate -- Launch the {@link SearchAndModRate} tool.</LI>
* <LI>split-ldif -- Launch the {@link SplitLDIF} tool.</LI>
* <LI>subtree-accessibility -- Launch the {@link SubtreeAccessibility} tool.</LI>
* <LI>summarize-access-log -- Launch the {@link SummarizeAccessLog} tool.</LI>
* <LI>test-ldap-sdk-performance -- Launch the {@link TLSCipherSuiteSelector} tool.</LI>
* <LI>tls-cipher-suite-selector -- Launch the {@link TLSCipherSuiteSelector} tool.</LI>
* <LI>transform-ldif -- Launch the {@link TransformLDIF} tool.</LI>
* <LI>validate-ldap-schema -- Launch the {@link ValidateLDAPSchema} tool.</LI>
* <LI>validate-ldif -- Launch the {@link ValidateLDIF} tool.</LI>
* <LI>version -- Display version information for the LDAP SDK.</LI>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6.0.3-sources.jar/com/unboundid/ldapsdk/unboundidds/Launcher.java

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an
* operation processed by the server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/OperationAccessLogMessage.java
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 */
/**
 * This interface defines an API that may be implemented by classes which wish
 * to be notified of processing performed in the course of moving a subtree
 * between servers.
 * <BR>
 * <BLOCKQUOTE>
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/**
 * This class provides a data structure that may be used to hold information
 * about disk space information for a Directory Server component.
* NOTE:
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* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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  jar/com/unboundid/ldap/sdk/unboundidds/monitors/DiskSpaceInfo.java
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/**
* This class provides a data structure for representing an administrative entry
* as exposed by the alarms backend in the Directory Server. Alarm entries
* provide information about potential ongoing or resolved conditions within the
* server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* */

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  jar/com/unboundid/ldap/sdk/unboundidds/AlarmEntry.java
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This class provides an intermediate response listener that will be used to
process entries and other types of intermediate responses returned during the
course of processing a get changelog batch extended operation.

NOTE: This class, and other classes within the
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/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetChangelogBatchIntermediateResponseListener.java
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*/
/**
* This class provides a request control which may be used to request that the
* Directory Proxy Server return the backend set IDs for the entry-balancing
* backend set(s) in which an operation was processed successfully.  It may be
* used in conjunction with the route to backend set request control in order
* to specify which backend set(s) should be used to process an operation.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B>  This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* This control may be used for a number of different kinds of requests,
* including:
* <UL>
* <LI>If an add request includes a get backend set ID request control, the
*     add response will include a get backend set ID response control if the
*     entry was successfully added to an entry-balanced data set.</LI>
* <LI>If a simple bind request includes a get backend set ID request control,
*     the bind response will include a get backend set ID response control if
*     the authentication was successful and the entry for the authenticated
*     user exists in an entry-balanced data set.  This control is currently
* not supported for use with SASL bind operations.</LI>
* <LI>If a compare request includes a get backend set ID request control, the
  compare response will include a get backend set ID response control if
  the result code is either COMPARE_TRUE or COMPARE_FALSE and the target
  entry exists in an entry-balanced data set.</LI>
* <LI>If a delete request includes a get backend set ID request control, the
  delete response will include a get backend set ID response control if
  the entry was successfully removed from an entry-balanced data
  set.</LI>
* <LI>If an atomic multi-update extended request includes a get backend set
  ID request control and the request is successfully processed through an
  entry-balancing request processor, then the extended response will
  include a get backend set ID response control. A non-atomic
  multi-update extended request should not include the get backend set ID
  request control in the extended operation itself, but may be attached
  to any or all of the requests inside the multi-update operation, in
  which case the server will return a multi-update response control
  attached to the corresponding successful responses.</LI>
* <LI>If an extended request includes a get backend set ID request control
  and that request is successfully processed by a proxied extended
  operation handler, then the extended response will include a get
  backend set ID response control indicating the backend set(s) that
  returned a success result during internal processing. Note that if the
  same extended request was processed by multiple entry-balancing
  request processors (i.e., if the deployment includes multiple
  entry-balanced subtrees), then the extended response may include a
  separate get backend set ID response control for each entry-balancing
  request processor used to process the request.</LI>
* <LI>If a modify request includes a get backend set ID request control, the
  modify response will include a get backend set ID response control if
  the entry was successfully modified in an entry-balanced data set.</LI>
* <LI>If a modify DN request includes a get backend set ID request control,
  the modify DN response will include a get backend set ID response
  control if the entry was successfully moved and/or renamed in an
  entry-balanced data set.</LI>
* <LI>If a search request includes a get backend set ID request control, any
  search result entries retrieved from an entry-balanced data set will
  include a get backend set ID response control. The search result done
  message will not include a get backend set ID response control.</LI>
* </UL>

* Note the response for any operation involving an entry that exists outside of
an entry-balanced dat set will not include a get backend set ID response
control. Similarly, the response for any non-successful operation may not
* include a get backend set ID response control even if it involved processing
* in one or more backend sets. Also note that even if an entry exists in
* multiple backend sets (i.e., because it is at or above the balancing point),
* the get backend set ID response control may only include one backend set ID
* if only one backend set was accessed during the course of processing the
* operation.
* <BR><BR>
* The get backend set ID request control has an OID of
* "1.3.6.1.4.1.30221.2.5.33" and no value. It is recommended that the control
* be non-critical so that the associated operation may still be processed even
* if the target server does not support this control (and note that even if
* the server supports the control, the server may not return a response control
* if the operation was not successful or did not access entry-balanced data).
* @see GetBackendSetIDResponseControl
* @see RouteToBackendSetRequestControl
*/

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/**
* This class provides an implementation of an LDIF reader entry translator that
* can be used to determine the set into which an entry should be placed by
* computing a modulus from a digest of a specified attribute.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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This class provides a data structure that holds information about an audit log message that represents an add operation.

<BR>

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/**
* This class defines an API that may be used to indicate how the tool should
* determine which log content to include in the support data archive when
* processing a {@link CollectSupportDataExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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* <BR>
* Available log capture window implementations include:
* <UL>
*   <LI>
*     {@link ToolDefaultCollectSupportDataLogCaptureWindow} -- Indicates that
*     the tool should capture a default amount of log content to include in
*     the support data archive.
*   </LI>
*   <LI>
* </UL>
* { @link DurationCollectSupportDataLogCaptureWindow } -- Indicates that the
* support data archive should include log messages for a specified duration
* leading up to the time that the
* { @link CollectSupportDataExtendedRequest } was received by the server.
* </LI>
* <LI>
* { @link TimeWindowCollectSupportDataLogCaptureWindow } -- Indicates that
* the support data archive should include log messages that fall between
* specified start and end times.
* </LI>
* <LI>
* { @link HeadAndTailSizeCollectSupportDataLogCaptureWindow } -- Indicates
* that the support data archive should include a specified amount of data
* from the beginning and end of each log file.
* </LI>
* </UL>
*
* @see CollectSupportDataExtendedRequest
*/

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  jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataLogCaptureWindow.java
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/ **
  * This class defines a monitor entry that provides information about the state
  * of a replica, including the base DN, replica ID, and generation ID, as well
  * as information about its communication with the replication server
  * <BR>
  * <BLOCKQUOTE>
  * <B>NOTE:</B>  This class, and other classes within the
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  * interoperable way with other types of LDAP servers.
  * </BLOCKQUOTE>
  * <BR>
  * The server should present a replica monitor entry for each replicated base
  * DN.  They can be retrieved using the
  * {@link MonitorManager#getReplicaMonitorEntries} method.  These entries
  * provide specific methods for accessing information about the replica.
  * Alternately, this information may be accessed using the generic API.  See the
  * {@link MonitorManager} class documentation for an example that demonstrates
  * the use of the generic API for accessing monitor data.
  */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/minters/ReplicaMonitorEntry.java
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/**
* This class provides an implementation of the LDAP no-op control as defined in
* draft-zeilenga-ldap-noop. This control may be included in an add, delete,
* modify, or modify DN request to indicate that the server should validate the
* request but not actually make any changes to the data. It allows the client
* to verify that the operation would likely succeed (including schema
* validation, access control checks, and other processing) without making any
* changes to the server data.
* 
* <BLOCKQUOTE>
* NOTE: This class, and other classes within the
* {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 server products. These classes provide support
* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* 
* Note that an operation which includes the no-op control will never have a
* [ @link ResultCode#SUCCESS ] result. Instead, if the operation would likely
* have completed successfully if the no-op control had not been included, then
* the server will include a response with the [ @link ResultCode#NO_OPERATION ]
* result. If the operation would not have been successful, then the result
* code in the response will be the appropriate result code for that failure.
* Note that if the response from the server includes the
* [ @link ResultCode#NO_OPERATION ] result, then the LDAP SDK will not throw an
* exception but will instead return the response in an
* [ @link com.unboundid.ldap.sdk.LDAPResult ] object. There is no corresponding
* response control.
* <BR><BR>
* Note that at the time this control was written, the latest version of the
* specification may be found in draft-zeilenga-ldap-noop-11. This version of
* the document does not explicitly specify either the OID that should be used
* for the control, or the result code that should be used for the associated
* operation if all other processing is completed successfully but no changes
* are made as a result of this control. Until such time as these are defined,
* this implementation uses the OID temporarily assigned for its use by the
* OpenLDAP Foundation, which is used by at least the OpenLDAP, OpenDS, and the
* Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server
* implementations.
* <BR>
* This control has an OID of 1.3.6.1.4.1.4203.1.10.2 and a criticality of true.
* It does not have a value.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the process for attempting to perform a
* modify operation including the LDAP no-op control so that the change is not
* actually applied:
* 
* ModifyRequest modifyRequest = new ModifyRequest("dc=example,dc=com",
*       new Modification(ModificationType.REPLACE, "description",
*       "new value"));
* modifyRequest.addControl(new NoOpRequestControl());
* 
* try
* {
*   LDAPResult result = connection.modify(modifyRequest);
*   if (result.getResultCode() == ResultCode.NO_OPERATION)
*   {
*     // The modify would likely have succeeded.
*   }
*   else
*   {
*     // The modify would likely have failed.
*   }
* }
* catch (LDAPException le)
* {  
*   // The modify attempt failed even with the no-op control.  
* }  
* </PRE>
*/

Found in path(s):
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/NoOpRequestControl.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a search
* request received from a client.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* </BLOCKQUOTE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
* jar/com/unboundid/ldap/sdk/unboundidds/logs/SearchRequestAccessLogMessage.java
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This class provides an implementation of a get changelog batch change selection criteria value that indicates that the server should only return changes which target all or more of the specified attributes. The changes may target other attributes as well, but all of the associated attributes must be included in the change.

NOTE: This class, and other classes within the \{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

Found in path(s):

/proc/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/AllAttributesChangeSelectionCriteria.java

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 * along with this program; if not, see <http://www.gnu.org/licenses>.
 */
/** *
* This class provides an implementation of an intermediate response which
* provides information about a changelog entry returned from a Directory
* Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
*   </BLOCKQUOTE>
* <BR>
* The changelog entry intermediate response value is encoded as follows:
* <PRE>
*   ChangelogEntryIntermediateResponse ::= SEQUENCE {
*        resumeToken                  OCTET STRING,
*        serverID                     OCTET STRING,
*        changelogEntryDN             LDAPDN,
*        changelogEntryAttributes     PartialAttributeList,
*        ... }
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ChangelogEntryIntermediateResponse.java
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*/
/**
* This class defines a data structure that can hold information about a thread
* stack trace read from the Directory Server's stack trace monitor.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
The information available in a thread stack trace includes:
* The name of the thread. This is generally a user-friendly string that
  indicates what that thread does within the server.
* The thread ID that is assigned to the thread by the JVM.
* The stack trace frames for that thread as a list of
  `StackTraceElement` objects.
* See the documentation in the `StackTraceMonitorEntry` class for
  information about accessing the Directory Server stack trace.

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/monitors/ThreadStackTrace.java

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/**
 * This class provides a data structure that holds information about an LDAP
 * connection handler defined in the configuration of a Ping Identity Directory
 * Server instance. It also provides a utility method for reading a Directory
 * Server configuration file to obtain information about the listener instances
 * it contains, and it implements the { @code Comparable } interface for ranking
 * connection handlers by relative preference for use.
 * <BR>
 * < BLOCKQUOTE>
 * <B>NOTE:</B> This class, and other classes within the
 * { @code com.unboundid.ldap.sdk.unboundidds } package structure, are only
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 */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/LDAPConnectionHandlerConfiguration.java

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*/

* This class provides a request control which may be included in a delete or
* modify DN request to indicate that the server should skip any referential
* integrity processing that would have otherwise been done for that operation.
* 
* The request control has an OID of "1.3.6.1.4.1.30221.2.5.30" and does not
* have a value. The criticality for this control may be either [@code TRUE]
* or [@code FALSE], which may impact whether a server will process the
* associated modify DN or delete operation if the server does not support the
* use of this control. If a server receives a critical control that it does
* not support for the associated operation, then it will return a failure
* result without attempting to process that operation. If a server receives
* a non-critical control that it does not support for the associated operation,
* then it will process the operation as if that control had not been provided.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/SuppressReferentialIntegrityUpdatesRequestControl.java
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/*
**
* This enum defines the set of fields that are supported for use with the
* {@link PasswordPolicyStateJSON} object.
* <BR>
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* <B>NOTE:</B> This class, and other classes within the
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* </BLOCKQUOTE>
* /*
null
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  <tr>
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<tr>
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</tr>
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<td>Issue Description</td>
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* <TR>
* <TD ALIGN="LEFT">SERVER_DOWN</TD>
* <TD ALIGN="RIGHT">81</TD>
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* <TR>
* <TD ALIGN="LEFT">LOCAL_ERROR</TD>
* <TD ALIGN="RIGHT">82</TD>
* </TR>
* <TR>
* <TD ALIGN="LEFT">ENCODING_ERROR</TD>
* <TD ALIGN="RIGHT">83</TD>
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<tr>
<th>Error Code</th>
<th>Description</th>
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<td>DECODING_ERROR</td>
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<td>85</td>
<td>TIMEOUT</td>
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<td>86</td>
<td>AUTH_UNKNOWN</td>
</tr>
<tr>
<td>87</td>
<td>FILTER_ERROR</td>
</tr>
<tr>
<td>88</td>
<td>USER_CANCELED</td>
</tr>
<tr>
<td>89</td>
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</tr>
<tr>
<td>90</td>
<td>NO_MEMORY</td>
</tr>
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<td>91</td>
<td>CONNECT_ERROR</td>
</tr>
<tr>
<td>92</td>
<td>NOT_SUPPORTED</td>
</tr>
<tr>
<td>93</td>
<td>CONTROL_NOT_FOUND</td>
</tr>
<tr>
<td>94</td>
<td>NO_RESULTS_RETURNED</td>
</tr>
<tr>
<td>95</td>
<td>MORE_RESULTS_TO_RETURN</td>
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<td>Error Reason</td>
<td>Code</td>
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<tr>
<td>CLIENT_LOOP</td>
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<td>REFERRAL_LIMIT_EXCEEDED</td>
<td>97</td>
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<tr>
<td>CANCELED</td>
<td>118</td>
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<td>NO_SUCH_OPERATION</td>
<td>119</td>
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<tr>
<td>TOO_LATE</td>
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<td>CANNOT_CANCEL</td>
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<td>123</td>
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<td>E_SYNC_REFRESH_REQUIRED</td>
<td>4096</td>
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<td>NO_OPERATION</td>
<td>16654</td>
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</TR>

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<TR>
<TD ALIGN="LEFT">TOKEN_DELIVERY_INVALID_RECIPIENT_ID</TD>
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</TR>

<TR>
<TD ALIGN="LEFT">TOKEN_DELIVERY_INVALID_ACCOUNT_STATE</TD>
<TD ALIGN="RIGHT">30221007</TD>
</TR>

</TABLE>

/*
/**
* The integer value (13) for the "CONFIDENTIALITY_REQUIRED" result code.
*/

Found in path(s):
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/ResultCode.java

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* limitations under the License.
This class provides an implementation of the account usable response control, which may be returned with search result entries to provide information about the usability of the associated user accounts.

NOTE: This class, and other classes within the @code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

Information that may be included in the account usable response control includes:

- [@code accountIsActive] -- Indicates that the account is active and may include the length of time in seconds until the password expires.
- [@code accountIsInactive] -- Indicates that the account has been locked or deactivated.
- [@code mustChangePassword] -- Indicates that the user must change his or her password before being allowed to perform any other operations.
- [@code passwordIsExpired] -- Indicates that the user's password has expired.
- [@code remainingGraceLogins] -- Indicates the number of grace logins remaining for the user.
- [@code secondsUntilUnlock] -- Indicates the length of time in seconds until the account will be automatically unlocked.
See the [AccountUsableRequestControl](#) documentation for an example demonstrating the use of the account usable request and response controls.

This control was designed by Sun Microsystems and is not based on any RFC or Internet draft. The value of this control is encoded as follows:

```plaintext
ACCOUNT_USABLE_RESPONSE ::= CHOICE {
  isUsable     [0] INTEGER, -- Seconds until password expiration --
  isNotUsable  [1] MORE_INFO }

MORE_INFO ::= SEQUENCE {
  accountIsInactive     [0] BOOLEAN DEFAULT FALSE,
  mustChangePassword    [1] BOOLEAN DEFAULT FALSE,
  passwordIsExpired     [2] BOOLEAN DEFAULT FALSE,
  remainingGraceLogins  [3] INTEGER OPTIONAL,
  secondsUntilUnlock    [4] INTEGER OPTIONAL }
```

Found in path(s):
```plaintext
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6.0.3-sources.jar/com/unboundid/ldap/sdk/unboundidds/controls/AccountUsableResponseControl.java
```

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*/

/**
 * This class acts as a superclass for objects that may be used to indicate how
 * a certificate key store may be made available to a server instance when
 * replacing listener or inter-server certificates.
 */

<BLOCKQUOTE>
* NOTE: This class, and other classes within the
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceCertificateKeyStoreContent.java
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*/
/**
* This class provides an {@link LDAPResultWriter} instance that uses a
* [@link ColumnFormatter] to output search result entries in a format like CSV
* or tab-delimited text. Only a single value from each attribute will be used,
* and an empty string will be used for attributes without any values.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   [@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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Found in path(s):
  */opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6.0.3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/ColumnBasedLDAPResultWriter.java
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/*
This class provides an implementation of an LDAP control that can be used to request that the Directory Server ignore the NO-USER-MODIFICATION flag for attribute types. It may be included in an add request to allow the client to include attributes which are not normally allowed to be externally specified (e.g., entryUUID, creatorsName, modifiersName, etc.). This control does not have a value, and there is no corresponding response control.

* **NOTE:** This class, and other classes within the `{@code com.unboundid.ldap.sdk.unboundidds}` package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.
<H2>Example</H2>
The following example demonstrates the process for attempting to perform an add operation including the ignore NO-USER-MODIFICATION control so that an entry can be added which already includes the creatorsName and createTimestamp attributes:

```java
AddRequest addRequest = new AddRequest("dc=example,dc=com",
   new Attribute("objectClass", "top", "domain"),
   new Attribute("dc", "example"),
   new Attribute("creatorsName", "cn=Admin User DN"),
   new Attribute("createTimestamp", "20080101000000Z"));
addRequest.addControl(new IgnoreNoUserModificationRequestControl());

try {
   LDAPResult result = connection.add(addRequest);
   // The entry was added successfully.
} catch (LDAPException le) {
   // The attempt to add the entry failed.
}
```

</PRE>

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/IgnoreNoUserModificationRequestControl.java
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 * limitations under the License.
This class provides a data structure that holds information about a log message that may appear in the Directory Server access log about a modify request received from a client.

NOTE: This class, and other classes within the `{@code com.unboundid.ldap.sdk.unboundidds}` package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

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*/
/**
* This class provides a utility that can delete all entries below a specified
* base DN (including the base entry itself by default, although it can be
* preserved if desired) in an LDAP directory server. It accomplishes this
* through a combination of search and delete operations. Ideally, it will
* first perform a search to find all entries below the target base DN, but in
* some cases, it may be necessary to intertwine search and delete operations
* if it is not possible to retrieve all entries in the target subtree in
* advance.
* 
* The subtree deleter can optionally take advantage of a number of server
* features to aid in processing, but does not require them. Some of these
* features include:
* 
* Set Subtree Accessibility Extended Operation -- A proprietary extended
* operation supported by the Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 Directory Server products. This operation can
* restrict access to a specified subtree to all but a specified user. If
* this is to be used, then the "Who Am I?" extended operation will first be
* used to identify the user that is authenticated on the provided
* connection, and then the set subtree accessibility extended operation
* will be used to make the target subtree hidden and read-only for all
users except the user identified by the "Who Am I?" operation. As far as all other clients are concerned, this will make the target subtree immediately disappear. The subtree deleter will then be able to search for the entries to delete, and then delete those entries, without exposing other clients to its in-progress state.

The set subtree accessibility extended operation will not automatically be used. If the 

{@link #setUseSetSubtreeAccessibilityOperationIfAvailable} method is called with a value of @code{true}, then this extended operation will be used if the server root DSE advertises support for both this operation and the LDAP "Who Am I?" extended operation.

The simple paged results request control will be used by default if the server root DSE advertises support for it, with a default page size of 100 entries.

The manage DSA IT request control will be used by default if the server root DSE advertises support for it.

The permit unindexed search request control will be used by default if the server root DSE advertises support for it.
unindexed.

* The permit unindexed search request control will not automatically be used. It may not needed if the requester has the unindexed-search privilege, and the permit unindexed search request control requires that the caller have either the unindexed-search or unindexed-search-with-control privilege. If the
* { @link #setUsePermitUnindexedSearchControlIfAvailable } method is called with a value of [ @code true ], then this control will be used if the server root DSE advertises support for it.

* LDAP Subentries Request Control -- A standard request control that is supported by several types of directory servers. It allows the client to request a search that retrieves entries with the "LdapSubentry" object class, which are normally excluded from search results. Note that because of the nature of this control, if it is to be used, then two separate sets of searches will be used: one that retrieves only LDAP subentries, and a second that retrieves other types of entries.

* The LDAP subentries request control will be used by default if the server root DSE advertises support for it.

* Return Conflict Entries Request Control -- A proprietary request control that is supported by the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server products. This control indicates that the server should return replication conflict entries, which are normally excluded from search results.

* The return conflict entries request control will be used by default if the server root DSE advertises support for it.

* Soft-Deleted Entry Access Request Control -- A proprietary request control that is supported by the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server products. This control indicates that the server should return soft-deleted entries, which are normally excluded from search results.

* The soft-deleted entry access request control will be used by default if the server root DSE advertises support for it.

* Hard Delete Request Control -- A proprietary request control that is
supported by the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661
* Directory Server products. This control indicates that the server
* should process a delete operation as a hard delete, even if a
* soft-delete policy would have otherwise converted it into a soft delete.
* A subtree cannot be deleted if it contains soft-deleted entries, so this
* should be used if the server is configured with such a soft-delete
* policy.
* <BR><BR>
The hard delete request control will be used by default if the server
* root DSE advertises support for it.
* <BR><BR>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/SubtreeDeleter.java
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This enum defines the set of authentication types that may appear in log messages about bind operations.

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*/
/**
** This class provides an implementation of an extended request that can be used
* to retrieve information about which one-time password delivery mechanisms are
* supported for a user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
**
* The OID for this extended request is "1.3.6.1.4.1.30221.2.6.47". It must
* have a value with the following encoding:
* <BR>
* <PRE>
*   GetSupportedOTPDeliveryMechanismsRequest ::= SEQUENCE {
*       userDN     [0] LDAPDN,
*       ... } }
* </PRE>
* 
* @see  GetSupportedOTPDeliveryMechanismsExtendedResult
*/

Found in path(s):
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetSupportedOTPDeliveryMechanismsExtendedRequest.java
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*/
/*
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects that have a particular value for a specified
* field.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in an "equals" filter are:

  * <UL>
  *   <LI> {@code fieldName} -- A field path specifier for the JSON field for which
      to make the determination. This may be either a single string or an
      array of strings as described in the "Targeting Fields in JSON Objects"
      section of the class-level documentation for [ @link JSONObjectFilter].
  *   </LI>
  *   <LI> {@code value} -- The value to match. This value may be of any type. In
      order for a JSON object to match the equals filter, the value of the
      target field must either have the same type value as this value, or the
      value of the target field must be an array containing at least one
      element with the same type and value. If the provided value is an array,
      then the order, types, and values of the array must match an array
      contained in the target field. If the provided value is a JSON object,
      then the target field must contain a JSON object with exactly the same
      set of fields and values.
  *   </LI>
  * </UL>

* The fields that may optionally be included in an "equals" filter are:

  * <UL>
  *   <LI> {@code caseSensitive} -- Indicates whether string values should be
      treated in a case-sensitive manner. If present, this field must have a
      Boolean value of either { @code true} or { @code false}. If it is not
      provided, then a default value of { @code false} will be assumed so that
      strings are treated in a case-insensitive manner.
  *   </LI>
  * </UL>

**Examples**

* The following is an example of an "equals" filter that will match any JSON
  object with a top-level field named "firstName" with a value of "John":

  * <PRE>
  *   { "filterType" : "equals",
    "field" : "firstName",
    "value" : "John" }
  * </PRE>

* The above filter can be created with the code:

  * <PRE>
  *   EqualsJSONObjectFilter filter =
  *       new EqualsJSONObjectFilter("firstName", "John");
  * </PRE>

* The following is an example of an "equals" filter that will match a JSON
  object with a top-level field named "contact" whose value is a JSON object
  (or an array containing one or more JSON objects) with a field named "type"
  and a value of "home":

  * <PRE>
* { "filterType" : "equals",
*    "field" : [ "contact", "type" ],
*    "value" : "home" }
*
* That filter can be created with the code:
*
*   EqualsJSONObjectFilter filter =
*        new EqualsJSONObjectFilter(Arrays.asList("contact", "type"), "Home");
*
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
*         jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/EqualsJSONObjectFilter.java

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 */
/**
 * This class provides an {@link LDAPResultWriter} instance that simply prints
 * the values of all attributes in the entries that are returned, with each
 * value on a line by itself. Entry DNs will not be included, and there will
 * not be any blank lines between entries.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   [@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
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  jar/com/unboundid/ldap/sdk/unboundidds/tools/ValuesOnlyLDAPResultWriter.java
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*/
/**
* This class provides a data structure that provides information about the
* result codes associated with various types of extended operations.
*<BR>
*/
<BLOCKQUOTE>
* NOTE: This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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jar/com/unboundid/ldap/sdk/unboundidds/monitors/ExtendedOperationResultCodeInfo.java
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 */

/**
 * This class defines an extended request that may be used to request that a
 * Ping Identity Directory Server instance (or related Ping Identity server
 * product) purge information about any retired inter-server certificates from
 * its topology registry. This extended request has an OID of
 * 1.3.6.1.4.1.30221.2.6.71 and no value.
 *
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 * </BLOCKQUOTE>
 *
 * @see  PurgeRetiredInterServerCertificatesExtendedResult
 */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PurgeRetiredInterServerCertificatesExtendedRequest.java

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 */
/**
 * This class provides an extended result that may be used to obtain information
 * about the results of processing a get changelog batch extended request.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 * </BLOCKQUOTE>
 * <BR>
 * The changelog batch result value is encoded as follows:
 * <PRE>
 * ChangelogBatchResult ::= SEQUENCE {

* resumeToken     [0] OCTET STRING OPTIONAL,
* moreChangesAvailable   [1] BOOLEAN,
* changesAlreadyPurged   [2] BOOLEAN DEFAULT FALSE,
* additionalInfo     [3] OCTET STRING OPTIONAL,
* estimatedChangesRemaining [4] INTEGER (0 .. MAXINT) OPTIONAL,
  ... }
* </PRE>
* <BR><BR>
* See the documentation for the { @link GetChangelogBatchExtendedRequest} class
* for an example demonstrating its use.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
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This class provides support for an UnboundID-proprietary SASL mechanism that uses the time-based one-time password mechanism (TOTP) as described in RFC 6238, optionally (based on the server configuration) in conjunction with a static password for a form of multifactor authentication.

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The name for this SASL mechanism is "UNBOUNDID-TOTP". An UNBOUNDID-TOTP SASL bind request MUST include SASL credentials with the following ASN.1 encoding:

```
UnboundIDTOTPCredentials ::= SEQUENCE {
  authenticationID  [0] OCTET STRING,
  authorizationID   [1] OCTET STRING OPTIONAL,
  totpPassword      [2] OCTET STRING,
  staticPassword    [3] OCTET STRING OPTIONAL }
```

Note that this class is abstract, with two different concrete implementations: the SingleUseTOTPBindRequest class may be used for cases in which the one-time password will be obtained from an external source (e.g., provided by the user, perhaps using the Google Authenticator application), and the ReusableTOTPBindRequest class may be used for cases in which the one-time password should be generated by the LDAP SDK itself. Because the SingleUseTOTPBindRequest class contains a point-in-time password, it cannot be used for re-authentication (e.g., for use with a connection pool, following referrals, or with the auto-reconnect feature). If TOTP authentication should be used in contexts where one or more of these may be needed, then the dynamic variant should be used.

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/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDTOTPBindRequest.java
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/*
* This class defines an API that must be implemented by classes that will
* format {@link LDAPCompare} output.
*<BR>
*<BLOCKQUOTE>
*<B>NOTE:</B> This class, and other classes within the
*{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPCompareOutputHandler.java
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*/

/**
* This class defines a monitor entry that provides information about the
* processing times of operations that are performed in the server. It includes
* the total counts of each type of operation, the average response time for

---

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* each type of operation, and counts and percentages of operations whose
* server-side processing time fits in defined buckets.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
* The following buckets are defined in the default configuration:
* <UL>
*   <LI>Less than 1ms.</LI>
*   <LI>Greater than or equal to 1ms and less than 2ms.</LI>
*   <LI>Greater than or equal to 2ms and less than 3ms.</LI>
*   <LI>Greater than or equal to 3ms and less than 5ms.</LI>
*   <LI>Greater than or equal to 5ms and less than 10ms.</LI>
*   <LI>Greater than or equal to 10ms and less than 20ms.</LI>
*   <LI>Greater than or equal to 20ms and less than 30ms.</LI>
*   <LI>Greater than or equal to 30ms and less than 50ms.</LI>
*   <LI>Greater than or equal to 50ms and less than 100ms.</LI>
*   <LI>Greater than or equal to 100ms and less than 1000ms.</LI>
*   <LI>Greater than or equal to 1000ms.</LI>
* </UL>
* It provides the following information for each operation, as well as for the
* total for all operations:
* <UL>
*   <LI>The number of operations of the specified type within each bucket.</LI>
*   <LI>The percentage of operations of the specified type within each
*       bucket.</LI>
*   <LI>The aggregate percentage of operations of the specified type for each
*       bucket (i.e., the percentage of operations in that bucket or any
*       bucket for a lower duration).</LI>
* </UL>
* The server should present at most one processing time histogram monitor
* entry. It can be retrieved using the
* [@link MonitorManager#getProcessingTimeHistogramMonitorEntry] method.
* This entry provides specific methods for accessing information about
* processing times per bucket (e.g., the
* [@link ProcessingTimeHistogramMonitorEntry#getAllOpsPercent] method can be
* used to retrieve a map containing the percent of operations within each
* bucket). Alternately, this information may be accessed using the generic
* API. See the [@link MonitorManager] class documentation for an example that
* demonstrates the use of the generic API for accessing monitor data.
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 */
/**
 * This class provides a data structure that can be used to represent a DN for
 * use in the [ @link LDAPDiff ] tool in a form that is as compact as possible.
 * The stored value will be the bytes that comprise the normalized
 * representation of a DN, but with the common base DN stripped off, and with
 * the RDNs in reverse order, which makes it fast to sort DNs lexicographically.
 * For example, if the common base DN is "dc=example,dc=com", the compact
representation of "uid=test.user,ou=People,dc=example,dc=com" would be the bytes of the string "ou=people,uid=test.user".

* <BLOCKQUOTE>

* NOTES: This class, and other classes within the
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* jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPDiffCompactDN.java
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*/
/**
* This class defines a Directory Server task that can be used to cause the server to enter lockdown mode, in which case it will only allow requests from users with the lockdown-mode privilege. Lockdown mode is intended to allow administrators to perform operations with the server online but without worrying about the impact that those operations may have on other users. In some special cases, the server may place itself in lockdown mode as a defense mechanism rather than risking the exposure of sensitive information. For example, if the server detects any malformed access control rules at startup, then it will place itself in lockdown mode rather than attempt to run without that rule in effect since it could have been intended to prevent unauthorized users from accessing certain data.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The enter lockdown mode task does not have any task-specific properties. See the [@link LeaveLockdownModeTask] class for the corresponding mechanism to bring the server out of lockdown mode.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/EnterLockdownModeTask.java
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*/
/**
**
** This class provides an implementation of an extended result that may be used
** to provide information about the result of processing for a deliver password
** reset token extended request. If the token was delivered successfully, then
** this result will include information about the mechanism through which the
** token was delivered.
**
** NOTE: This class, and other classes within the
** {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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** for proprietary functionality or for external specifications that are not
** considered stable or mature enough to be guaranteed to work in an
** interoperable way with other types of LDAP servers.
**
** If the request was processed successfully, then the extended result will have
** an OID of 1.3.6.1.4.1.30221.2.6.46 and a value with the following encoding:
**
** DeliverPasswordResetTokenResult ::= SEQUENCE {

* deliveryMechanism OCTET STRING,
* recipientID [0] OCTET STRING OPTIONAL,
* message [1] OCTET STRING OPTIONAL,
* ...
* </PRE>
* @see DeliverPasswordResetTokenExtendedRequest
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/sdk/unboundidds/extensions/DeliverPasswordResetTokenExtendedResult.java
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This class provides a utility that can be used to query and update the set of subtree accessibility restrictions defined in the Directory Server.

NOTE: This class, and other classes within the `{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

The APIs demonstrated by this example include:

- The use of the get/set subtree accessibility extended operations
- The LDAP command-line tool API
- Argument parsing

Found in path(s):

```
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/examples/SubtreeAccessibility.java
```

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*/
/**
* This class provides an implementation of an extended request which may be
* used to retrieve a batch of changes from a Directory Server.
* 
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The changelog batch request value is encoded as follows:
* <PRE>
*   ChangelogBatchRequest ::= SEQUENCE {
*   startingPoint                      CHOICE {
*     resumeWithToken          [0] OCTET STRING,
*     resumeWithCSN            [1] OCTET STRING,
*     beginningOfChangelog     [2] NULL,
*     endOfChangelog           [3] NULL,
*     changeTime               [4] OCTET STRING,
*   ... },
*   maxChanges                         INTEGER (0 .. maxInt),
*   maxTimeMillis                      [0] INTEGER DEFAULT 0,
*   waitForMaxChanges                  [1] BOOLEAN DEFAULT FALSE,
*   includeBase                        [2] SEQUENCE OF LDAPDN OPTIONAL,
*   excludeBase                        [3] SEQUENCE OF LDAPDN OPTIONAL,
*   changeTypes                        [4] SET OF ENUMERATED {
*     add          (0),
*     delete       (1),
*     modify       (2),
* ...}
modifyDN (3) } OPTIONAL,
continueOnMissingChanges [5] BOOLEAN DEFAULT FALSE,
pareEntriesForUserDN [6] LDAPDN OPTIONAL,
changeSelectionCriteria [7] CHOICE {
anyAttributes [1] SEQUENCE OF LDAPString,
allAttributes [2] SEQUENCE OF LDAPString,
ignoreAttributes [3] SEQUENCE {
ignoreAttributes SEQUENCE OF LDAPString
ignoreOperationalAttributes BOOLEAN,
... },
negotiationDestination [4] OCTET STRING,
... } OPTIONAL,
includeSoftDeletedEntryMods [8] BOOLEAN DEFAULT FALSE,
includeSoftDeletedEntryDeletes [9] BOOLEAN DEFAULT FALSE,
... }
</PRE>
* </BR></PRE>
* </H2><BR>
* The following example demonstrates the use of the get changelog batch to
* iterate across all entries in the changelog. It will operate in an infinite
* loop, starting at the beginning of the changelog and then reading 1000
* entries at a time until all entries have been read. Once the end of the
* changelog has been reached, it will continue looking for changes, waiting for
* up to 5 seconds for new changes to arrive.
* </PRE>
* ChangelogBatchStartingPoint startingPoint =
*   new BeginningOfChangelogStartingPoint();
* while (true)
* {  
*   GetChangelogBatchExtendedRequest request =
*     new GetChangelogBatchExtendedRequest(startingPoint, 1000, 5000L);
*   
*   GetChangelogBatchExtendedResult result =
*     (GetChangelogBatchExtendedResult)
*       connection.processExtendedOperation(request);
*   List&lt;ChangelogEntryIntermediateResponse&gt; changelogEntries =
*     result.getChangelogEntries();
*   
*   startingPoint = new ResumeWithTokenStartingPoint(result.getResumeToken());
* }
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/idap/sdk/unboundidds/extensions/GetChangelogBatchExtendedRequest.java
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 */

/**
 * This class defines a Directory Proxy Server task that can be used to reload
 * the contents of the global index.
 *
 * <BR>
 * <BLOCKQUOTE>
 * <B>NOTE:</B> This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 * supported for use against Ping Identity, UnboundID, and
 * Nokia/Alcatel-Lucent 8661 server products. These classes provide support
 * for proprietary functionality or for external specifications that are not
 * considered stable or mature enough to be guaranteed to work in an
 * interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 */
* The properties that are available for use with this type of task include:
  * The base DN for the entry-balancing request processor.
  * An optional set of attributes for which to reload the index information.
  * A flag indicating whether to perform the reload in the background.
  * A flag indicating whether to reload entries from backend Directory Server instances rather than a peer Directory Proxy Server instance.
  * An optional maximum number of entries per second to access when priming.

/*

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ReloadGlobalIndexTask.java
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This class defines a request control that may be used to indicate that the
server should process all aspects of the associated bind request (including
password policy processing) but should not actually change the identity for
the client connection, regardless of whether the authentication is
successful.

This control can be very useful for applications that perform binds to
authenticate users but also use connection pooling to re-use connections
for multiple operations. Bind operations are normally not well-suited for
use on pooled connections because they change the identity of that
connection, but the retain identity request control solves that problem by
performing all bind processing but does not change the identity associated
with the client connection.

There is no corresponding response control. If the bind is successful, then
the server should return a bind response with the `@code ResultCode#SUCCESS` result code just as if the bind request had not included the retain identity
request control.

This control is not based on any public standard. It was originally
developed for use with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
8661 Directory Server. It does not have a value.

The following example demonstrates the use of the retain identity request
control:

```java
SimpleBindRequest bindRequest = new SimpleBindRequest(
    "uid=John.Doe,ou=People,dc=example,dc=com", "password",
    new RetainIdentityRequestControl());
```
* * BindResult bindResult;
* * try
* * { bindResult = connection.bind(bindRequest);
* * // The bind was successful and the account is usable, but the identity
* * // associated with the client connection hasn't changed.
* * }
* * catch (LDAPException le)
* * { bindResult = new BindResult(le.toLDAPResult());
* * // The bind was unsuccessful, potentially because the credentials were
* * // invalid or the account is unusable for some reason (e.g., disabled,
* * // locked, expired password, etc.). The identity associated with the
* * // client connection hasn't changed.
* * }
* * </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/RetainIdentityRequestControl.java
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Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/util/OIDRegistryItem.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldif/LDIFDiff.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/schema/SchemaElementType.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/LDAPConnectionInfo.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/OAUTHBEARERBindResult.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/OAUTHBEARERBindRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/PassphraseEncryptedOutputStreamProperties.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/NotNull.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/PasswordAuthentication.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/PasswordAuthenticationPassword.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/PassphraseEncryptedOutputStreamProperties.java
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*/
/**
* The BER type used for the header element that specifies the encoding
* version.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/PassphraseEncryptedStreamHeader.java
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This class provides a request control which may be used to request the server
ID of the server that actually processed the associated request. It may be
used for requests sent directly to a Directory Server, but it is more useful
when the request will pass through a Directory Proxy Server instance because
the corresponding [@link GetServerIDResponseControl] will provide the server
ID of the backend server used to process the request. This server ID may be
used in a [@link RouteToServerRequestControl] instance to request that
subsequent operations be processed by the same server. See the documentation
for the [@code RouteToServerRequestControl] for an example that demonstrates
this.

This control does not have a value. The criticality may be either
[@code true] or [@code false].

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[@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
supported for use against Ping Identity, UnboundID, and
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interoperable way with other types of LDAP servers.

This control does not have a value. The criticality may be either
[@code true] or [@code false].
This class defines the base class for all JSON object filter types, which are used to perform matching against JSON objects stored in a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server via the jsonObjectFilterExtensibleMatch matching rule. The \{@link #toLDAPFilter(String)\} method can be used to easily create an LDAP filter from a JSON object filter. This filter will have an attribute type that is the name of an attribute with the JSON object syntax, a matching rule ID of "jsonObjectFilterExtensibleMatch", and an assertion value that is the string representation of the JSON object that comprises the filter.

For example, given the JSON object filter:

```
{ "filterType" : "equals", "field" : "firstName", "value" : "John" }
```

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the resulting LDAP filter targeting attribute "jsonAttr" would have a string representation as follows (without the line break that has been added for formatting purposes):

```<PRE>
(jsonAttr:jsonObjectFilterExtensibleMatch:={ "filterType" : "equals",
   "field" : "firstName", "value" : "John" })
</PRE>```

JSON object filters are themselves expressed in the form of JSON objects.
All filters must have a "filterType" field that indicates what type of filter the object represents, and the filter type determines what other fields may be required or optional for that type of filter.

**Types of JSON Object Filters**

This implementation supports a number of different types of filters to use when matching JSON objects. Supported JSON object filter types are as follows:

**Contains Field**

This filter can be used to determine whether a JSON object has a specified field, optionally with a given type of value. For example, the following can be used to determine whether a JSON object contains a top-level field named "department" that has any kind of value:

```<PRE>
{ "filterType" : "containsField",
  "field" : "department" }
</PRE>```

**Equals**

This filter can be used to determine whether a JSON object has a specific value for a given field. For example, the following can be used to determine whether a JSON object has a top-level field named "firstName" with a value of "John":

```<PRE>
{ "filterType" : "equals",
  "field" : "firstName",
  "value" : "John" }
</PRE>```

**Equals Any**

This filter can be used to determine whether a JSON object has any of a number of specified values for a given field. For example, the following can be used to determine whether a JSON object has a top-level field named "userType" with a value that is either "employee", "partner", or "contractor":

```<PRE>
{ "filterType" : "equalsAny",
  "field" : "userType",
  "values" : [ "employee", "partner", "contractor" ] }
</PRE>```
This filter can be used to determine whether a JSON object has a specified field with a value that is greater than (or optionally greater than or equal to) a given numeric or string value. For example, the following filter would match any JSON object with a top-level field named "salary" with a numeric value that is greater than or equal to 50000:

```json
{  "filterType" : "greaterThan",
  "field" : "salary",
  "value" : 50000,
  "allowEquals" : true }
```

This filter can be used to determine whether a JSON object has a specified field with a value that is less than (or optionally less than or equal to) a given numeric or string value. For example, the following filter will match any JSON object with a "loginFailureCount" field with a numeric value that is less than or equal to 3.

```json
{  "filterType" : "lessThan",
  "field" : "loginFailureCount",
  "value" : 3,
  "allowEquals" : true }
```

This filter can be used to determine whether a JSON object has a specified field with a string value that starts with, ends with, and/or contains a particular substring. For example, the following filter will match any JSON object with an "email" field containing a value that ends with "@example.com":

```json
{  "filterType" : "substring",
  "field" : "email",
  "endsWith" : "@example.com" }
```

This filter can be used to determine whether a JSON object has a specified field with a string value that matches a given regular expression. For example, the following filter can be used to determine whether a JSON object has a "userID" value that starts with an ASCII letter and contains only ASCII letters and numeric digits:

```json
{  "filterType" : "regularExpression",
  "field" : "userID",
  "regex" : "^[a-zA-Z][a-zA-Z0-9]*$" }
```
* "field": "userID",
* "regularExpression": "^[a-zA-Z][a-zA-Z0-9]*$"
* </PRE>
* <BR>
* </H3>Object Matches</H3>
* This filter can be used to determine whether a JSON object has a specified
* field with a value that is itself a JSON object that matches a given JSON
* object filter. For example, the following filter can be used to determine
* whether a JSON object has a "contact" field with a value that is a JSON
* object with a "type" value of "home" and an "email" field with any kind of
* value:
* </PRE>
* <BR>
* </H3>AND</H3>
* This filter can be used to perform a logical AND across a number of filters,
* so that the AND filter will only match a JSON object if each of the
* encapsulated filters matches that object. For example, the following filter
* could be used to match any JSON object with both a "firstName" field with a
* value of "John" and a "lastName" field with a value of "Doe":
* </PRE>
* <BR>
* </H3>OR</H3>
* This filter can be used to perform a logical OR (or optionally, a logical
* exclusive OR) across a number of filters so that the filter will only match
* a JSON object if at least one of the encapsulated filters matches that
* object. For example, the following filter could be used to match a JSON
* object that has either or both of the "homePhone" or "workPhone" field with
* any kind of value:
* <PRE>
*   { "filterType" : "or",
*     "orFilters" : [
*       { "filterType" : "containsField",
*         "field" : "homePhone" },
*       { "filterType" : "containsField",
*         "field" : "workPhone" } ] }
* </PRE>

*Negate*

This filter can be used to negate the result of an encapsulated filter, so that it will only match a JSON object that the encapsulated filter does not match. For example, the following filter will only match JSON objects that do not have a "userType" field with a value of "employee":

* <PRE>
*   { "filterType" : "negate",
*     "negateFilter" : {
*       "filterType" : "equals",
*       "field" : "userType",
*       "value" : "employee" } }
* </PRE>

**Targeting Fields in JSON Objects**

Many JSON object filter types need to specify a particular field in the JSON object that is to be used for the matching. Unless otherwise specified in the Javadoc documentation for a particular filter type, the target field should be specified either as a single string (to target a top-level field in the object) or a non-empty array of strings (to provide the complete path to the target field). In the case the target field is specified in an array, the first (leftmost in the string representation) element of the array will specify a top-level field in the JSON object. If the array contains a second element, then that indicates that one of the following should be true:

* <UL>
* <LI>
  * The top-level field specified by the first element should have a value that is itself a JSON object, and the second element specifies the name of a field in that JSON object.
* </LI>
* <LI>
  * The top-level field specified by the first element should have a value that is an array, and at least one element of the array is a JSON object with a field whose name matches the second element of the field path array.
* </LI>
* </UL>

Each additional element of the field path array specifies an additional level of hierarchy in the JSON object. For example, consider the following JSON object:
In the above example, the field whose value is `"valueA"` can be targeted using either `"field1"` or `[ "field1" ]`. The field whose value is `"valueB"` can be targeted as `[ "field2", "field3" ]`. The field whose value is `"valueC"` can be targeted as `[ "field2", "field4", "field5" ]`.

Note that the mechanism outlined here cannot always be used to uniquely identify each field in a JSON object. In particular, if an array contains multiple JSON objects, then it is possible that some of those JSON objects could have field names in common, and therefore the same field path reference could apply to multiple fields. For example, in the JSON object:

```
{ "contact" : [  
  { "type" : "Home",  
    "email" : "jdoe@example.net",  
    "phone" : "123-456-7890" },  
  { "type" : "Work",  
    "email" : "john.doe@example.com",  
    "phone" : "789-456-0123" ] } }
```

The field specifier `[ "contact", "type" ]` can reference either the field whose value is `[ @code "Home" ]` or the field whose value is `[ @code "Work" ]`. The field specifier `[ @code "contact", "email" ]` can reference the field whose value is `[ @code "jdoe@example.net" ]` or the field whose value is `[ @code "john.doe@example.com" ]`. And the field specifier `[ @code "contact", "phone" ]` can reference the field with value `[ @code 123-456-7890 ]` or the field with value `[ @code 789-456-0123 ]`. This ambiguity is intentional for values in arrays because it makes it possible to target array elements without needing to know the order of elements in the array.

Thread Safety of JSON Object Filters

JSON object filters are not guaranteed to be threadsafe. Because some filter types support a number of configurable options, it is more convenient and future-proof to provide minimal constructors to specify values for the required fields and setter methods for the optional fields. These filters will be mutable, and any filter that may be altered should not be accessed concurrently by multiple threads. However, if a JSON object filter is not expected to be altered, then it may safely be shared across multiple threads.

Further, LDAP filters created using the [ @link toLDAPFilter ] method and
* JSON objects created using the {@link #toJSONObject} method will be
* thread safe under all circumstances.
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* */
/**
* This enum provides information about all of the subcommands available for
* use with the manage-account tool.
* <BR>
* <BLOCKQUOTE>
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* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccountSubCommandType.java
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*
This class defines a monitor entry that provides information about the state of a replication server, including the base DNs for replicated content, the generation ID for each of those base DNs, the replication server ID, and the port number on which the replication server is listening.

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 */

The server should present at most one replication server monitor entry. It can be retrieved using the `MonitorManager#getReplicationServerMonitorEntry` method. This entry provides specific methods for accessing information about the replication server. Alternatively, this information may be accessed using the generic API. See the `MonitorManager` class documentation for an example that demonstrates the use of the generic API for accessing monitor data.

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*/
/**/
/**
This class provides an implementation of an intermediate response that can
provide the client with output from the collect-support-data tool in
response to a {@link CollectSupportDataExtendedRequest}.
<pre>
<blockquote>
  <b>NOTE:</b> This class, and other classes within the
  <code>com.unboundid.ldap.sdk.unboundidds</code> package structure, are only
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  considered stable or mature enough to be guaranteed to work in an
  interoperable way with other types of LDAP servers.
</blockquote>
</pre>

The collect support data output intermediate response has an OID of
1.3.6.1.4.1.30221.2.6.65 and a value with the following encoding:
<pre>
  CollectSupportDataOutputIntermediateResponse ::= SEQUENCE {
    outputStream    [0] ENUMERATED {
      standardOutput    (0),
      standardError    (1),
      ... },
    outputMessage    [1] OCTET STRING,
    ... }
</pre>
Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundids/extensions/CollectSupportDataOutputIntermediateResponse.java

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 */

/**
 * This class provides an implementation of the proxied authorization V2
 * request control, as defined in
* <A HREF="http://www.ietf.org/rfc/rfc4370.txt">RFC 4370</A>. It may be used
* to request that the associated operation be performed as if it has been
* requested by some other user.
* &lt;BR&gt;&lt;BR&gt;
* The target authorization identity for this control is specified as an
* "authzId" value as described in section 5.2.1.8 of
* &lt;A HREF="http://www.ietf.org/rfc/rfc4513.txt">RFC 4513</A>. That is, it
* should be either "dn:" followed by the distinguished name of the target user,
* or "u:" followed by the username. If the "u:" form is used, then the
* mechanism used to resolve the provided username to an entry may vary from
* server to server.
* &lt;BR&gt;&lt;BR&gt;
* This control may be used in conjunction with add, delete, compare, delete,
* extended, modify, modify DN, and search requests. In that case, the
* associated operation will be processed under the authority of the specified
* authorization identity rather than the identity associated with the client
* connection (i.e., the user as whom that connection is bound). Note that
* because of the inherent security risks associated with the use of the proxied
* authorization control, most directory servers which support its use enforce
* strict restrictions on the users that are allowed to request this control.
* If a user attempts to use the proxied authorization V2 request control and
* does not have sufficient permission to do so, then the server will return a
* failure response with the { @link ResultCode#AUTHORIZATION_DENIED} result
* code.
* &lt;BR&gt;&lt;BR&gt;
* There is no corresponding response control for this request control.
* &lt;BR&gt;&lt;BR&gt;
* The following example demonstrates the use of the proxied authorization V2
* control to delete an entry under the authority of the user with username
* "alternate.user":
* &lt;PRE&gt;
* // Create a delete request to delete an entry. Include the proxied
* // authorization v2 request control in the delete request so that the
* // delete will be processed as the user with username "alternate.user"
* // instead of the user that's actually authenticated on the connection.
* DeleteRequest deleteRequest =
*   new DeleteRequest("uid=test.user,ou=People,dc=example,dc=com");
* deleteRequest.addControl(new ProxiedAuthorizationV2RequestControl(
*   "u:alternate.user"));
* LDAPResult deleteResult;
* try
* {
*   deleteResult = connection.delete(deleteRequest);
*   // If we got here, then the delete was successful.
* }
* catch (LDAPException le)
* {  
*   // The delete failed for some reason. In addition to all of the normal  
*   // reasons a delete could fail (e.g., the entry doesn't exist, or has one  
*   // or more subordinates), proxied-authorization specific failures may  
*   // include that the authenticated user doesn't have permission to use the  
*   // proxied authorization control to impersonate the alternate user, that  
*   // the alternate user doesn't exist, or that the alternate user doesn't  
*   // have permission to perform the requested operation.  
*   deleteResult = le.toLDAPResult();  
*   ResultCode resultCode = le.getResultCode();  
*   String errorMessageFromServer = le.getDiagnosticMessage();  
* }  
* </PRE>  
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/controls/ProxiedAuthorizationV2RequestControl.java
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This class provides an implementation of an extended result that can be used
* to retrieve a version of the server configuration.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this extended result is 1.3.6.1.4.1.30221.2.6.29. If the request
* was processed successfully, then the response will have a value with the
* following encoding:
* <PRE>
* GetConfigurationResult ::= SEQUENCE {
*   configurationType  [0] ENUMERATED {
*     active       (0),
*     baseline     (1),
*     archived     (2),
*     ... },
*   fileName      [1] OCTET STRING,
*   configurationFileData [2] OCTET STRING,
*   ... }
* </PRE>
*
* @see  GetConfigurationExtendedRequest
* @see  ListConfigurationsExtendedRequest
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
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 */
/**
 * The quality of protection value that indicates that only authentication is
 * to be performed, with no integrity or confidentiality protection for
 * subsequent communication.
 */
/**
 * The quality of protection value that indicates that confidentiality
 * protection will be provided for subsequent communication after
 * authentication has completed. This ensures that third-party observers will
 * not be able to decipher communication between the client and server (i.e.,
 * that the communication will be encrypted).
 */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/SASLQualityOfProtection.java
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 */

/*
 * This class provides a command-line tool that can be used to read change
 * records for add, delete, modify and modify DN operations from an LDIF file,
 * and then apply them in parallel using multiple threads for higher throughput.
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

Changes in the LDIF file to be processed should be ordered such that if there are any dependencies between changes, prerequisite changes come before the changes that depend on them (for example, if one add change record creates a parent entry and another creates a child entry, the add change record that creates the parent entry must come before the one that creates the child entry). When this tool is preparing to process a change, it will determine whether the new change depends on any other changes that are currently in progress, and if so, will delay processing that change until its dependencies have been satisfied. If a change does not depend on any other changes that are currently being processed, then it can be processed in parallel with those changes.

The tool will keep track of any changes that fail in a way that indicates they succeed if re-tried later (for example, an attempt to add an entry that fails because its parent does not exist, but its parent may be created later in the set of LDIF changes), and can optionally re-try those changes after processing is complete. Any changes that are not retried, as well as changes that still fail after the retry attempts, will be written to a rejects file with information about the reason for the failure so that an administrator can take any necessary further action upon them.

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This class provides an extended request that may be used to delete a notification subscription.

```java
DeleteNotificationSubscriptionRequest ::= SEQUENCE {
  notificationManagerID          OCTET STRING,
  notificationDestinationID      OCTET STRING,
  notificationSubscriptionID     OCTET STRING }
```

The request has an OID of 1.3.6.1.4.1.30221.2.6.39 and a value with the following encoding:

```java
DeleteNotificationSubscriptionRequest ::= SEQUENCE {
  notificationManagerID          OCTET STRING,
  notificationDestinationID      OCTET STRING,
  notificationSubscriptionID     OCTET STRING }
```

Found in path(s):

```
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeleteNotificationSubscriptionExtendedRequest.java
```

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This class provides a data structure that holds information about a log message that may appear in the Directory Server access log about an abandon request received from a client.

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*/

/*
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a delete
* request received from a client.
* <BR>
* < BLOCKQUOTE>
* < B> NOTE: </ B> This class, and other classes within the
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This class provides an implementation of an extended request that can be used
to consume a single-use token that was generated and provided to the user
through the deliver single-use token extended operation. Once a token has
been consumed, it cannot be used again, although a new token can be generated
and delivered to the user if necessary.

```java
ConsumeSingleUseTokenRequestValue ::= SEQUENCE {
    userDN      LDAPDN,
    tokenID     OCTET STRING,
    tokenValue  OCTET STRING
    ... }
```

This extended request has an OID of "1.3.6.1.4.1.30221.2.6.51" and it must
have a value with the following encoding:

```java
ConsumeSingleUseTokenRequestValue ::= SEQUENCE {
    userDN      LDAPDN,
    tokenID     OCTET STRING,
    tokenValue  OCTET STRING
    ... }
```

@see DeliverSingleUseTokenExtendedResult

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*/
/**
* This class provides a request control which may be included in a delete
* request to indicate that the server should completely remove the target
* entry, even if it would otherwise process the operation as a soft delete and
* merely hide the entry from most clients.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The criticality for this control may be either {@code TRUE} or {@code FALSE},
* but this will only impact how the delete request is to be handled by servers
* which do not support this control. A criticality of {@code TRUE} will cause
* any server which does not support this control to reject the request, while
* a criticality of {@code FALSE} should cause the delete request to be
* processed as if the control had not been included (i.e., as a regular "hard"
* delete).
The control may optionally have a value. If a value is provided, then it must be the encoded representation of an empty ASN.1 sequence, like:

```
HardDeleteRequestValue ::= SEQUENCE {
  ... }
```

In the future, the value sequence may allow one or more elements to customize the behavior of the hard delete operation, but at present no such elements are defined.

See the documentation for the `@link SoftDeleteRequestControl` class for an example demonstrating the use of this control.

`@see SoftDeleteRequestControl`

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This class defines an extended request that may be used to request that a
Ping Identity Directory Server instance (or related Ping Identity server
product) purge information about any retired listener certificates from its
topology registry.  This extended request has an OID of
1.3.6.1.4.1.30221.2.6.70 and no value.

This class, and other classes within the
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@see  PurgeRetiredListenerCertificatesExtendedResult

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PurgeRetiredListenerCertificatesExtendedRequest.java

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*/
/**
* This class provides an implementation of a control that can be used to
* indicate that the server should suppress the update to one or more
* operational attributes for the associated request.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The request control has an OID of 1.3.6.1.4.1.30221.2.5.27, and the
* criticality may be either {@code true} or {@code false}.  The control must
* have a value with the following encoding:
* <PRE>
* SuppressOperationalAttributeUpdateRequestValue ::= SEQUENCE {
Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/SuppressOperationalAttributeUpdateRequestControl.java

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This class provides an implementation of an LDAP command-line tool that may
be used to change passwords in a directory server. Three types of password
changes are supported: the password modify extended operation (as described
in <A HREF="http://www.ietf.org/rfc/rfc3062.txt">RFC 3062</A>), a standard
LDAP modify operation that targets an attribute like userPassword, or an
Active Directory-specific password change that uses an LDAP modify operation
to replace the value of the unicodePwd attribute with a value that is the
password surrounded by quotation marks and encoded with UTF-16-LE.

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Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateAccountUsabilityError.java
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* This class defines a monitor entry that provides information about the state
* of the traditional work queue. For all practical purposes, the traditional
* work queue has been replaced by the UnboundID Work Queue, which is the
* default work queue implementation (which exposes its own monitor information
* that can be accessed using the [@link UnboundIDWorkQueueMonitorEntry]).
*<BR>
*<BLOCKQUOTE>
*  <B>NOTE:</B> This class, and other classes within the
*  [@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
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*  for proprietary functionality or for external specifications that are not
*  considered stable or mature enough to be guaranteed to work in an
*  interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*<BR>
* In the event that the traditional work queue is configured for use instead of
* the UnboundID work queue, then this monitor entry may be used to access the
* information that it provides, which may include:
*<UL>
*  <LI>The total number of requests submitted to the work queue.</LI>
*  <LI>The number of requests that were rejected because the work queue was
*      already at its maximum capacity.</LI>
* </UL>
<UL>
* The number of operations currently held in the work queue waiting to be
  picked for processing by a worker thread.</LI>
* The average number of operations held in the work queue since startup
  as observed from periodic polling.</LI>
* The maximum number of operations held in the work queue at any time
  since startup as observed from periodic polling.</LI>
* </UL>
* The server should present at most one traditional work queue monitor entry.
* It can be retrieved using the
  {@link MonitorManager#getTraditionalWorkQueueMonitorEntry} method. This
* entry provides specific methods for accessing information about the state of
* the work queue (e.g., the
  {@link TraditionalWorkQueueMonitorEntry#getCurrentBacklog} method may be used
* to retrieve the number of operations currently held in the work queue).
* Alternately, this information may be accessed using the generic API. See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/

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This class provides an implementation of the start administrative session extended request, which clients may use to indicate that they are going to perform a set of administrative operations in the server. It may be used to identify the client to the server and to indicate whether subsequent requests received on the connection should be processed using worker threads in a dedicated thread pool (subject to server configuration restrictions).

This extended request has an OID of 1.3.6.1.4.1.30221.2.6.13, and it must have a value with the following encoding:

```
StartAdminSessionValue ::= SEQUENCE {
    clientName                 [0] OCTET STRING OPTIONAL,
    useDedicatedThreadPool     [1] BOOLEAN DEFAULT FALSE,
    ... }
```

The following example demonstrates the process for creating an administrative session and using that session to request monitor information using a dedicated worker thread.

```
// Establish a connection to the server.
LDAPConnection connection = new LDAPConnection(host, port);

// Use the start administrative session operation to begin an administrative session and request that operations in the session use the dedicated
```
* // thread pool.
* ExtendedResult extendedResult = connection.processExtendedOperation(
*     new StartAdministrativeSessionExtendedRequest("Test Client", true));
*
* // Authenticate the connection. It is strongly recommended that the 
* // administrative session be created before the connection is authenticated.
* // Attempting to authenticate the connection before creating the 
* // administrative session may result in the bind using a "regular" worker 
* // thread rather than an administrative session worker thread, and if all 
* // normal worker threads are busy or stuck, then the bind request may be 
* // blocked.
* BindResult bindResult = connection.bind(userDN, password);
*
* // Use the connection to perform operations that may benefit from using an 
* // administrative session (e.g., operations that troubleshoot and attempt to 
* // correct some problem with the server). In this example, we'll just 
* // request all monitor entries from the server.
* List&lt;MonitorEntry&gt; monitorEntries = 
*     MonitorManager.getMonitorEntries(connection);
*
* // Use the end administrative session operation to end the administrative 
* // session and resume using normal worker threads for subsequent operations.
* // This isn't strictly needed if we just want to close the connection.
* extendedResult = connection.processExtendedOperation(
*     new EndAdministrativeSessionExtendedRequest());
*
* // Do other operations that don't need an administrative session.
* connection.close();
* </PRE>
*
* @see  EndAdministrativeSessionExtendedRequest
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/StartAdministrativeSessionExtendedRequest.java

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*/
/**
* This class provides an implementation of an extended result that can be used
* to provide information about the notification subscriptions defined in the
* target server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The OID for this result is 1.3.6.1.4.1.30221.2.6.41, and the value (if
* present) should have the following encoding:
* <BR><BR>
* <PRE>
*   ListNotificationSubscriptionsResponse ::= SEQUENCE OF SEQUENCE {
*       notificationDestinationID     OCTET STRING,
*       destinationDetails            SEQUENCE OF OCTET STRING,
*       subscriptions                 SEQUENCE OF SEQUENCE {
*           subscriptionID          OCTET STRING,
*           subscriptionDetails     SEQUENCE OF OCTET STRING } }
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ListNotificationSubscriptionsExtendedResult.java
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This class provides support for reading and decoding the value of the
[@code ds-pwp-modifiable-state-json] virtual attribute, which may be used to
manipulate elements of a user's password policy state. The value of this
attribute is a JSON object, and using an LDAP modify operation to replace the
value with a new JSON object will cause the associated state elements to be
updated in the user entry. The
[@link ModifiablePasswordPolicyStateJSONBuilder] class can be used to
construct values to more easily manipulate that state. Note that the
[@link PasswordPolicyStateExtendedRequest] class provides a mechanism for
manipulating an even broader range of password policy state elements.

* <blockquote>
  * <b>NOTE:</b> This class, and other classes within the
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  * interoperable way with other types of LDAP servers.
  * </blockquote>

* @see ModifiablePasswordPolicyStateJSONBuilder
* @see ModifiablePasswordPolicyStateJSONField
* @see PasswordPolicyStateJSON
* @see PasswordPolicyStateExtendedRequest
*

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/ModifiablePasswordPolicyStateJSON.java
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*/
/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at a point where a previous
* batch ended. The first change of the batch will be the change immediately
* after the change associated with the provided token.
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{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
 * Retrieves a list of lines containing information about the LDAP SDK
 * version.
 *
 * @return A list of lines containing information about the LDAP SDK
 *         version.
 */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
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*/
/**
* This class provides an implementation of the password policy state extended
* request as used in the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661
* Directory Server. It may be used to retrieve and/or alter password policy
* properties for a user account. See the documentation in the
* @link PasswordPolicyStateOperation\] class for information about the types of
* operations that can be performed.
*<BR>
*<BLOCKQUOTE>
* **NOTE:** This class, and other classes within the
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* </BLOCKQUOTE>
*<BR>
* The extended request has an OID of 1.3.6.1.4.1.30221.1.6.1 and a value with
* the following encoding:
*<PRE>
* PasswordPolicyStateValue ::= SEQUENCE {
*   targetUser     LDAPDN
*   operations     SEQUENCE OF PasswordPolicyStateOperation OPTIONAL }
*
* PasswordPolicyStateOperation ::= SEQUENCE {
*   opType       ENUMERATED {
*      getPasswordPolicyDN (0),
*      getAccountDisabledState (1),
*      setAccountDisabledState (2),
*      clearAccountDisabledState (3),
*      getAccountExpirationTime (4),
*      setAccountExpirationTime (5),
*      clearAccountExpirationTime (6),
*      getSecondsUntilAccountExpiration (7),
*      getPasswordChangedTime (8),
*      setPasswordChangedTime (9),
*      clearPasswordChangedTime (10),
*      getPasswordExpirationWarnedTime (11),
*      setPasswordExpirationWarnedTime (12),
*      clearPasswordExpirationWarnedTime (13),
*      getSecondsUntilPasswordExpiration (14),
*      getSecondsUntilPasswordExpirationWarning (15),
*      getAuthenticationFailureTimes (16),
*   }
* }\]
* addAuthenticationFailureTime (17),
* setAuthenticationFailureTimes (18),
* clearAuthenticationFailureTimes (19),
* getSecondsUntilAuthenticationFailureUnlock (20),
* getRemainingAuthenticationFailureCount (21),
* getLastLoginTime (22),
* setLastLoginTime (23),
* clearLastLoginTime (24),
* getSecondsUntilIdleLockout (25),
* getPasswordResetState (26),
* setPasswordResetState (27),
* clearPasswordResetState (28),
* getSecondsUntilPasswordResetLockout (29),
* getGraceLoginUseTimes (30),
* addGraceLoginUseTime (31),
* setGraceLoginUseTimes (32),
* clearGraceLoginUseTimes (33),
* getRemainingGraceLoginCount (34),
* getPasswordChangedByRequiredTime (35),
* setPasswordChangedByRequiredTime (36),
* clearPasswordChangedByRequiredTime (37),
* getSecondsUntilRequiredChangeTime (38),
* getPasswordHistory (39), -- Deprecated
* clearPasswordHistory (40),
* hasRetiredPassword (41),
* getPasswordRetiredTime (42),
* getRetiredPasswordExpirationTime (43),
* purgeRetiredPassword (44),
* getAccountActivationTime (45),
* setAccountActivationTime (46),
* clearAccountActivationTime (47),
* getSecondsUntilAccountActivation (48),
* getLastLoginIPAddress (49),
* setLastLoginIPAddress (50),
* clearLastLoginIPAddress (51),
* getAccountUsabilityNotices (52),
* getAccountUsabilityWarnings (53),
* getAccountUsabilityErrors (54),
* getAccountIsUsable (55),
* getAccountIsNotYetActive (56),
* getAccountIsExpired (57),
* getPasswordExpirationTime (58),
* getAccountIsFailureLocked (59),
* setAccountIsFailureLocked (60),
* getFailureLockoutTime (61),
* getAccountIsIdleLocked (62),
* getIdleLockoutTime (63),
* getAccountIsResetLocked (64),
getResetLockoutTime (65),
getPasswordHistoryCount (66),
getPasswordIsExpired (67),
getAvailableSASLMechanisms (68),
getAvailableOTPDeliveryMechanisms (69),
getHasTOTPSharedSecret (70),
getRegisteredYubiKeyPublicIDs (71),
addRegisteredYubiKeyPublicID (72),
removeRegisteredYubiKeyPublicID (73),
setRegisteredYubiKeyPublicIDs (74),
clearRegisteredYubiKeyPublicIDs (75),
addTOTPSharedSecret (76),
removeTOTPSecret (77),
setTOTPSharedSecrets (78),
clearTOTPSharedSecrets (79),
hasRegisteredYubiKeyPublicID (80),
hasStaticPassword (81),
getLastBindPasswordValidationTime (82),
getSecondsSinceLastBindPasswordValidation (83),
setLastBindPasswordValidationTime (84),
clearLastBindPasswordValidationTime (85),
getAccountIsValidationLocked (86),
setAccountIsValidationLocked (87),
clearRecentLoginHistory (88),
hasRegisteredYubiKeyPublicID (89),
... },

opValues SEQUENCE OF OCTET STRING OPTIONAL }
*</PRE>
</BR>
</H2>
The following example demonstrates the use of the password policy state
extended operation to administratively disable a user's account:

* <PRE>
PasswordPolicyStateOperation disableOp =
PasswordPolicyStateOperation.createSetAccountDisabledStateOperation(
true);
PasswordPolicyStateExtendedRequest pwpStateRequest =
new PasswordPolicyStateExtendedRequest(
"uid=john.doe,ou=People,dc=example,dc=com", disableOp);
PasswordPolicyStateExtendedResult pwpStateResult =
(PasswordPolicyStateExtendedResult)
connection.processExtendedOperation(pwpStateRequest);

// NOTE: The processExtendedOperation method will generally only throw an
// exception if a problem occurs while trying to send the request or read
// the response. It will not throw an exception because of a non-success
// response.
*
* if (pwpStateResult.getResultCode() == ResultCode.SUCCESS)
  *
  * boolean isDisabled = pwpStateResult.getBooleanValue(
  *     PasswordPolicyStateOperation.OP_TYPE_GET_ACCOUNT_DISABLED_STATE);
  *
  * if (isDisabled)
  *   {
  *     // The user account has been disabled.
  *   }
  * else
  *   {
  *     // The user account is not disabled.
  *   }
  *
  * }  
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateExtendedRequest.java

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This class defines a monitor entry that provides information about a
load-balancing algorithm used by the Directory Proxy Server.

Information that it may make available includes:

- The aggregate health check state for servers associated with the
  load-balancing algorithm.
- Information about each server associated with the load-balancing
  algorithm, including the address, port, and health check state for the
  server.
- The number of available, degraded, and unavailable servers associated
  with the load-balancing algorithm.

The server should present a load-balancing algorithm monitor entry for each
load-balancing algorithm used by a proxying request processor. These entries
can be retrieved using the
{@link MonitorManager#getLoadBalancingAlgorithmMonitorEntries} method. These
entries provide specific methods for accessing this information.
Alternately, the information may be accessed using the generic API. See the
{@link MonitorManager} class documentation for an example that demonstrates
the use of the generic API for accessing monitor data.
This class provides a collect support data log capture window implementation
that indicates that the tool should capture information for a specified
window of time (between start and end times, inclusive) when processing a
[@link CollectSupportDataExtendedRequest].

<BR>

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* </BLOCKQUOTE>

* @see CollectSupportDataExtendedRequest
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/TimeWindowCollectSupportDataLogCaptureWindow.java
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 */

/**
 * This class provides a utility that can log information about the launch and
 * completion of a tool invocation.
<BR>

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  jar/com/unboundid/ldap/sdk/unboundidds/tools/ToolInvocationLogger.java

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* GNU General Public License for more details.
This class provides a data structure that holds information about a log message that may appear in the Directory Server access log.

```
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B>  This class, and other classes within the
* {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/
```

Found in path(s):
```
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/logs/AccessLogMessage.java
```

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This class provides a request control that can be included in a modify request or a password modify extended request in order to indicate that if the operation results in changing the password for a user, the user's former password should be purged from the entry rather than retired, and any existing retired password should also be purged.

This control has an OID of "1.3.6.1.4.1.30221.2.5.32" and does not have a value. The criticality may be either true (in which case the operation will succeed only if the user's password policy allows passwords to be retired by a request control) or false (in which case if the password policy does not allow the use of this control, the operation will be processed as if the control had not been included in the request).

The following example demonstrates the use of the purge password request control to request that a user's current password be purged in the course of a password change.

```java
Control[] requestControls =
{ new PurgePasswordRequestControl(true) };

PasswordModifyExtendedRequest passwordModifyRequest =
   new PasswordModifyExtendedRequest("uid=test.user,ou=People,dc=example,dc=com", // The user to update
null, // The current password -- we don't know it.
"newPassword", // The new password to assign to the user.
requestControls); // The controls to include in the request.

PasswordModifyExtendedResult passwordModifyResult =
  (PasswordModifyExtendedResult)
  connection.processExtendedOperation(passwordModifyRequest);

*/

@see RetirePasswordRequestControl
*/

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* along with this program; if not, see <http://www.gnu.org/licenses>.
* /
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an
* operation request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* /

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/logs/OperationRequestAccessLogMessage.java
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This class provides a mechanism for extracting the effective rights information from an entry returned for a search request that included the get effective rights request control. In particular, it provides the ability to parse the values of the aclRights attributes in order to determine what rights the specified user may have when interacting with the entry.

NOTE: This class, and other classes within the @code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

See the @link GetEffectiveRightsRequestControl for an example that demonstrates the use of the get effective rights request control and this entry.
This class defines a Directory Server task that can be used to export the contents of a backend to LDIF.

The properties that are available for use with this type of task include:

- The backend ID for the backend from which the data is to be exported. It must be provided when scheduling a task of this type.
- The path (on the server system) and name of the LDIF file to be written. It must be provided when scheduling a task of this type.
- A flag that indicates whether to append to any existing file or to overwrite it.
- An optional list of base DNs for branches that should be included in
* the export. </LI>
* An optional list of base DNs for branches that should be excluded from
* the export. </LI>
* An optional list of filters that may be used to determine whether an
* entry should be included in the export. </LI>
* An optional list of filters that may be used to determine whether an
* entry should be excluded from the export. </LI>
* An optional list of attributes that should be included in entries that
* are exported. </LI>
* An optional list of attributes that should be excluded from entries
* that are exported. </LI>
* An integer value that specifies the column at which long lines should
* be wrapped. A value less than or equal to zero indicates that no
* wrapping should be performed. </LI>
* A flag that indicates whether to compress the LDIF data as it is
* written. </LI>
* A flag that indicates whether to encrypt the LDIF data as it is
* written. </LI>
* A flag that indicates whether to generate a signature for the LDIF data
* as it is written. </LI>
* The path to a file containing a passphrase to use to generate the
* encryption key. </LI>
* The ID of the encryption settings definition to use to generate the
* encryption key. </LI>
* The maximum rate in megabytes per second at which the LDIF file should
* be written. </LI>
* 
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ExportTask.java
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/**
 * This package and its subordinate packages contain a set of classes which
 * provide enhanced functionality for interacting with the Ping
 * These classes are not supported for use with any other type of directory
 * server.
 */

*/

/* <BLOCKQUOTE>
 * <B>NOTE:</B> The classes within this package, and elsewhere within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 * supported for use against Ping Identity, UnboundID, and
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 * for proprietary functionality or for external specifications that are not
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 */
* With a `null` authentication identity and a non-`null` TOTP shared secret. In this case, the authorization identity for the operation (typically the user as whom the underlying connection is authenticated, but possibly a different user if the request also includes a control like the proxied authorization or intermediate client request control that specifies and alternate authorization identity, or if the client authenticated with a SASL mechanism that included an alternate authorization identity) will be used as the authentication identity for this request, and only the specified TOTP shared secret will be removed from the user's entry while any other shared secrets that may be present in the user's entry will be preserved. If a static password is provided, then it will be verified, but if none is given then the provided TOTP shared secret will be considered sufficient proof of the user's identity.
* With a `null` authentication identity, a non-`null` static password, and a `null` TOTP shared secret. In this case, the authorization identity for the operation will be used as the authentication identity for this request, and, if the provided static password is valid, then all TOTP secrets contained in the user's entry will be revoked.
* With a non-`null` authentication identity and a non-`null` TOTP shared secret. In this case, only the provided TOTP shared secret will be removed from the specified user's account while any other shared secrets will be preserved. If a static password is provided, then it will be verified, but if none is given then the provided TOTP shared secret will be considered sufficient proof of the user's identity.
* With a non-`null` authentication identity a non-`null` static password, and a `null` TOTP shared secret. In this case, if the static password is valid for the specified user, then all TOTP shared secrets for that user will be revoked.
* With a non-`null` authentication identity a `null` static password, and a `null` TOTP shared secret. In this case, the authentication identity from the request must be different from the authorization identity for the operation, and the authorization identity must have the password-reset privilege. All TOTP shared secrets for the specified user will be revoked.
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.58, and it must
  * include a request value with the following encoding:
  * <PRE>
  * RevokeTOTPSharedSecretRequest ::= SEQUENCE {
  *     authenticationID     [0] OCTET STRING OPTIONAL,
  *     staticPassword       [1] OCTET STRING OPTIONAL,
  *     totpSharedSecret     [2] OCTET STRING OPTIONAL,
  *     ...   }
  * </PRE>
  * @see GenerateTOTPSharedSecretExtendedRequest
  */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
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This class defines a Directory Server task that can be used to safely remove an object class from the server schema. It will make sure that the object class is not in use in the server before removing it.

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The properties that are available for use with this type of task include:

- The name or OID of the object class to remove from the server schema.

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*/
/**
* This class provides a mechanism for reading messages from a Directory Server
* audit log.
* <BR>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* interoperable way with other types of LDAP servers.
* */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6.0.3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/AuditLogReader.java
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*
This class provides an implementation of an extended request that can be used to retrieve backup compatibility data for a Directory Server backend. This includes both a token that can be used to compare compatibility data with other servers (or potentially the same server at a later date, for example to check compatibility after upgrading to a new version), and a set of capability strings that may provide additional context about how the backup descriptor may be used.

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The OID for this extended request is 1.3.6.1.4.1.30221.2.6.30. It must have
* a value with the following encoding:

```<PRE>
GetBackupCompatibilityDescriptorRequest ::= SEQUENCE {
  baseDN     [0] OCTET STRING,
  ... }
</PRE>
```

* @see GetBackupCompatibilityDescriptorExtendedResult
* @see IdentifyBackupCompatibilityProblemsExtendedRequest
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetBackupCompatibilityDescriptorExtendedRequest.java
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*/
/**
* This class defines a monitor entry that provides information about the system
* and JVM on which the Directory Server is running.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The information that may be available includes:
* <UL>
*   <LI>The name of the operating system on which the server is running.</LI>
*   <LI>The number of CPUs available to the JVM.</LI>
*   <LI>The Java classpath in use by the server.</LI>
*   <LI>The amount of memory currently used by the JVM.</LI>
*   <LI>The maximum amount of memory that the JVM will be allowed to use.</LI>
*   <LI>The amount of memory held by the JVM that is marked as “free” and can
*       be used to allocate new objects.</LI>
*   <LI>The hostname for the underlying system.</LI>
*   <LI>The location in which the server is installed on the
*       underlying system.</LI>
*   <LI>The current working directory for the server process.</LI>
*   <LI>The path to the Java installation being used to run the server.</LI>
*   <LI>The vendor that provides the Java installation being used to run the
*       server.</LI>
*   <LI>The Java version string for the Java installation being used to run
*       the server.</LI>
*   <LI>The vendor that provides the JVM being used by the Java installation
*       being used to run the server.</LI>
*   <LI>The JVM version string for the Java installation being used to run the
*       server.</LI>
*   <LI>The JVM architecture data model (i.e., whether it is a 32-bit or 64-bit
*       JVM).</LI>
*   <LI>The arguments provided to the JVM when running the server.</LI>
* </UL>
* The server should present at most one system info monitor entry. It can be
* retrieved using the {@link MonitorManager#getSystemInfoMonitorEntry} method.
* This entry provides specific methods for accessing this system information
* (e.g., the {@link SystemInfoMonitorEntry#getOperatingSystem}
* method can be used to retrieve the name of the operating system).
* Alternately, this information may be accessed using the generic API. See the
* [{@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unbound-id-ldapdk-6-0-3-sources-
* jar/com/unboundid/ldap/sdk/unboundidds/monitors/SystemInfoMonitorEntry.java
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*/

/**
* This class provides a command-line tool that can be used to split an LDIF
* file below a specified base DN. This can be used to help initialize an
* entry-balancing deployment for use with the Directory Proxy Server.

* <BR>

* <BLOCKQUOTE>

* <B>NOTE:</B> This class, and other classes within the
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* </BLOCKQUOTE>

* <BR>

* It supports a number of algorithms for determining how to split the data,
* including:
* <UL>
* <LI> split-using-hash-on-rdn -- The tool will compute a digest of the DN
* component that is immediately below the split base DN, and will use a
* modulus to select a backend set for a given entry. Since the split is
* based purely on computation involving the DN, the there is no need for
* caching to ensure that children are placed in the same sets as their
* parent, which allows it to run effectively with a small memory footprint.
* </LI>
* <LI> split-using-hash-on-attribute -- The tool will compute a digest of the
* value(s) of a specified attribute, and will use a modulus to select a
* backend set for a given entry. This hash will only be computed for
* entries immediately below the split base DN, and a cache will be used to
* ensure that entries more than one level below the split base DN are
* placed in the same backend set as their parent.
* </LI>
* <LI> split-using-fewest-entries -- When examining an entry immediately below
* the split base DN, the tool will place that entry in the set that has the
* fewest entries. For flat DITs in which entries only exist one level
* below the split base DN, this will effectively ensure a round-robin
* distribution. But for cases in which there are branches of varying sizes
* below the split base DN, this can help ensure that entries are more
* evenly distributed across backend sets. A cache will be used to ensure
* that entries more than one level below the split base DN are placed in
* the same backend set as their parent.
* </LI>
* <LI> split-using-filter -- When examining an entry immediately below the split
* base DN, a series of filters will be evaluated against that entry, which
* each filter associated with a specific backend set. If an entry doesn't
* match any of the provided filters, an RDN hash can be used to select the
* set. A cache will be used to ensure that entries more than one level
below the split base DN are placed in the same backend set as their parent.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/SplitLDIF.java
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*/
/*
* This class provides a data structure with information about a recent login
* attempt for a user.

* <BR>

* <BLOCKQUOTE>

* <B>NOTE:</B> This class, and other classes within the
* {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* @see GetRecentLoginHistoryRequestControl
* @see GetRecentLoginHistoryResponseControl
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/RecentLoginHistoryAttempt.java

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This class defines a Directory Server task that can be used to request that
the server terminate a client connection.

The properties that are available for use with this type of task include:

- The connection ID for the client connection to be terminated. This
  is required.
- A flag that indicates whether the client connection should be notified
  (e.g., using a notice of disconnection unsolicited notification) before
  the connection is actually terminated.
- An optional message that may provide a reason for the disconnect. If
  this is provided, it will appear in the server log, and it may be
  provided to the client if the client is to be notified before the
  connection is closed.

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/DisconnectClientTask.java
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This class provides an implementation of an LDAP control that can be included in a bind request to request that the Directory Server return the authentication and authorization entries for the user that authenticated.

This class, and other classes within the
[@code com.unboundid.ldap.sdk.unboundidds] package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.
The following example demonstrates the process for processing a bind operation using the get authorization entry request control to return all user attributes in both the authentication and authorization entries:

```
ReadOnlyEntry authNEntry = null;
ReadOnlyEntry authZEntry = null;

BindRequest bindRequest = new SimpleBindRequest(
   "uid=john.doe,ou=People,dc=example,dc=com", "password",
   new GetAuthorizationEntryRequestControl());

BindResult bindResult = connection.bind(bindRequest);
GetAuthorizationEntryResponseControl c =
   GetAuthorizationEntryResponseControl.get(bindResult);
if (c != null)
{
   authNEntry = c.getAuthNEntry();
   authZEntry = c.getAuthZEntry();
}
```

*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetAuthorizationEntryRequestControl.java

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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This enum defines the set of response types that can be used in the
* password validation details response control.
*<BR>
*B<NOTE>: This class, and other classes within the
* [@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
* supported for use against Ping Identity, UnboundID, and
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</B><NOTE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ladpsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordValidationDetailsResponseType.java

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* Licensed under the Apache License, Version 2.0 (the "License");
* This class defines a Directory Server task that can be used to cause the
  * server to initiate a data security audit, which can look for potential
  * issues in the environment that can impact the security of the directory
  * environment.

  * <BR>
  * <BLOCKQUOTE>
  *  <B>NOTE:</B>  This class, and other classes within the
  *  {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
  *  supported for use against Ping Identity, UnboundID, and
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  *  for proprietary functionality or for external specifications that are not
  *  considered stable or mature enough to be guaranteed to work in an
  *  interoperable way with other types of LDAP servers.
  * </BLOCKQUOTE>

  * <BR>
  * The properties that are available for use with this type of task include:

  * <UL>
  *  <LI>The names of the auditors to include or exclude from the audit.  This
  *    is optional, and if it is not provided, then all enabled auditors will
  *    be used.</LI>
  * </UL>
* <LI>The backend IDs for the backends containing the data to be audited.
* This is optional, and if it is not provided then the server will run
* the audit in all backends that support this capability.</LI>
* <LI>A set of filters which identify the entries that should be examined by
* the audit. This is optional, and if it is not provided, then all
* entries in the selected backends will be included.</LI>
* <LI>The path to the directory in which the output files should be
* generated. This is optional, and if it is not provided then the server
* will use a default output directory.</LI>
*  </UL>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tasks/AuditDataSecurityTask.java

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This class defines an intermediate client response control, which can be used to provide a server with information about the client and any downstream clients that it may have.

This control is not based on any public standard. It was originally developed for use with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server. The value of this control uses the following encoding:

```
IntermediateClientResponse ::= SEQUENCE {
  upstreamResponse       [0] IntermediateClientResponse OPTIONAL,  
  upstreamServerAddress  [1] OCTET STRING OPTIONAL,  
  upstreamServerSecure   [2] BOOLEAN DEFAULT FALSE,  
  serverName             [3] OCTET STRING OPTIONAL,  
  serverSessionID        [4] OCTET STRING OPTIONAL,  
  serverResponseID       [5] OCTET STRING OPTIONAL,  
  ... }
```

See the documentation in the IntermediateClientRequestControl class for an example of using the intermediate client request and response controls.
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*/
/**
* This class provides information about the types of alert severities that may
* be included in alert entries.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/AlertSeverity.java
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 */
/**
 * This class provides a {@link ReplaceCertificateKeyStoreContent}
 * implementation to indicate that the certificate chain and private key (in
 * either PEM or DER format) are provided directly in the extended request.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
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jar/com/unboundid/ldap/sdk/unboundidds/extensions/CertificateDataReplaceCertificateKeyStoreContent.java
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/**
* This class provides an implementation of an X.509 trust manager that can be
* used to trust certificates listed in the topology registry of a Ping Identity
* Directory Server instance. It will read the topology registry from the
* server's configuration file rather than communicating with it over LDAP, so
* it is only available for use when run from LDAP tools provided with the
* Ping Identity Directory Server.
* <BR>
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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jar/com/unboundid/ldap/sdk/unboundidds/TopologyRegistryTrustManager.java
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/**
* This class represents a data structure with information about a notification
* destination defined in a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
* 8661 server instance.
* <BR>
* <BLOCKQUOTE>
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  jar/com/unboundid/ldap/sdk/unboundidds/extensions/NotificationDestinationDetails.java
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/**
* This class provides an implementation of the UNBOUNDID-TOTP SASL bind request
* that may be used to repeatedly generate one-time password values. Because it
* is configured with the shared secret rather than a point-in-time version of
* the password, it can be used for cases in which the authentication process
* may need to be repeated (e.g., for use in a connection pool, following
* referrals, or if the auto-reconnect feature is enabled). If the shared
* secret is not known and the one-time password will be provided from an
* external source (e.g., entered by a user), then the
* { [@link SingleUseTOTPBindRequest] variant should be used instead.
* <BR>
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/**
 * This class defines a Directory Server task that can be used to perform an
 * internal search within the server and write the contents to an LDIF file.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *  {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
*   <LI>The base DN to use for the search. This is required.</LI>
*   <LI>The scope to use for the search. This is required.</LI>
*   <LI>The filter to use for the search. This is required.</LI>
*   <LI>The attributes to return. This is optional and multivalued.</LI>
*   <LI>The authorization DN to use for the search. This is optional.</LI>
*   <LI>The path to the output file to use. This is required.</LI>
* </UL>
* */

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  jar/com/unboundid/ldap/sdk/unboundidds/tasks/SearchTask.java
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/**
* This class provides an implementation of a changelog entry which provides
* support for all standard changelog entry attributes as well as those unique
* to the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory
* Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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  jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDChangeLogEntry.java
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/**
* This enum defines the set of routing types that may be used in a route to
* backend set request control.
*<BR>
*<BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/RouteToBackendSetRoutingType.java

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/**
* This class provides an implementation of an extended request that can be used
* to trigger the delivery of a temporary single-use token to a specified user
* via some out-of-band mechanism. It can be used for security purposes
* (e.g., as part of step-up authentication), for data validation purposes
* (e.g., to verify that a user can receive e-mail messages at a given address
* or SMS messages at a given phone number), or for other purposes in which it
* could be useful to deliver and consume a token through some out-of-band
* mechanism.
* <BR>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </B>
* <BR>
* This extended request has an OID of "1.3.6.1.4.1.30221.2.6.49" and it must
* have a value with the following encoding:
* <PRE>
* DeliverSingleUseTokenRequestValue ::= SEQUENCE {
*    userDN              LDAPDN,
*    tokenID            OCTET STRING,
*    validityDurationMillis  [0] INTEGER OPTIONAL,
*    messageSubject     [1] OCTET STRING OPTIONAL,
*    fullTextBeforeToken [2] OCTET STRING OPTIONAL,
*    fullTextAfterToken  [3] OCTET STRING OPTIONAL,
*    compactTextBeforeToken [4] OCTET STRING OPTIONAL,
*    compactTextAfterToken [5] OCTET STRING OPTIONAL,
*    preferredDeliveryMechanism [6] SEQUENCE OF SEQUENCE {
*        mechanismName OCTET STRING,
*        recipientID  OCTET STRING OPTIONAL },
*    deliverIfPasswordExpired [7] BOOLEAN DEFAULT FALSE,
*    deliverIfAccountLocked   [8] BOOLEAN DEFAULT FALSE,
*    deliverIfAccountDisabled [9] BOOLEAN DEFAULT FALSE,
*    deliverIfAccountExpired  [10] BOOLEAN DEFAULT FALSE,
*    ... }
* </PRE>
*
* @see  DeliverSingleUseTokenExtendedResult
* @see  ConsumeSingleUseTokenExtendedRequest
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeliverSingleUseTokenExtendedRequest.java
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/**
* This class provides support for a number of one-time password algorithms.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Supported algorithms include:
* <UL>
*   <LI>HOTP -- The HMAC-based one-time password algorithm described in
*     <A HREF="http://www.ietf.org/rfc/rfc4226.txt">RFC 4226</A>.</LI>
*   <LI>TOTP -- The time-based one-time password algorithm described in
*     <A HREF="http://www.ietf.org/rfc/rfc6238.txt">RFC 6238</A>.</LI>
* </UL>
*/

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/**

* This class defines a monitor entry that provides information about the recent
* CPU and memory utilization of the underlying system.
* <BR>
* <B>NOTE:</B>  This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 */

/**<BR>
* This class defines a data structure that holds information about a password
* generated by the server and returned to the client in a
* [{@link GeneratePasswordExtendedResult}].
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 */

/*
 * This enum contains the set of error log categories defined in the Directory
 * Server.
*/
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supported for use against Ping Identity, UnboundID, and
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This class defines a Directory Server task that can be used to populate the values of a composed attribute in existing entries without the need to export the data to LDIF and re-import it.

**NOTE:** This class, and other classes within the `com.unboundid.ldap.sdk.unboundidds` package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

The properties that are available for use with this type of task include:

- The names or DNs of the configuration entries for the composed attribute plugin instances for which to generate values.
- The backend IDs of the backends in which the values are to be composed.
- The maximum number of entries to update per second.

Found in path(s):

`/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/PopulateComposedAttributeValuesTask.java`

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This class provides a set of methods for retrieving Directory Server monitor entries. In particular, it provides methods for retrieving all monitor entries from the server, as well as retrieving monitor entries of specific types.

Example
The following example demonstrates the process for retrieving all monitor entries published by the directory server and printing the information contained in each using the generic API for accessing monitor entry data:

```java
List<MonitorEntry> allMonitorEntries = MonitorManager.getMonitorEntries(connection);
for (MonitorEntry e : allMonitorEntries) {
    String monitorName = e.getMonitorName();
    String displayName = e.getMonitorDisplayName();
    // Print the monitor information
}
```
Map&lt;String,MonitorAttribute&gt; monitorAttributes =
    e.getMonitorAttributes();
} */

*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/MonitorManager.java
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*/

/*
* This class provides a command-line tool that can be used to list LDAP result
* code names and their numeric values, or to search for result codes that match
* a given name or value.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6.0.3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPResultCode.java
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 */

/**
 * This class provides a request control which may be included in a search
 * request to indicate that the server should provide the number of entries that
 * match the search criteria. The count will be included in the search result
 * done message, and all search result entries will be suppressed.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * Whenever possible, the server will use index information to quickly identify
 * entries matching the criteria of the associated search request. However, if
 * the count is only determined using index information, then that count may
 * include entries that would not actually be returned to the client in the
 * course of processing that search (e.g., because the client doesn't have
 * permission to access the entry, or because it is a special "operational"
 * entry like an LDAP subentry, replication conflict entry, or soft-deleted
 * entry). Indicating that the server should always examine candidate entries
 * will increase the length of time to obtain the matching entry count, but will
 * ensure that the count will not include entries that would not otherwise be
 * returned by that search.
 * <BR><BR>
 * Also note that this control is not compatible for use with other controls
 * that may cause only a subset of entries to be returned, including the simple
 * paged results control and the virtual list view control. It is also not
 * compatible for use with other controls that may cause the server to return
 * more entries than those that match the search criteria, like the LDAP join
 * control.
 * <BR><BR>
 * The OID for a matching entry count request control is
 * "1.3.6.1.4.1.30221.2.5.36", and it may have a criticality of either
 * { @code true } or { @code false }. It must include a value with the following
 * encoding:
 * <PRE>
 * MatchingEntryCountRequest ::= SEQUENCE {
 *   maxCandidatesToExamine          [0] INTEGER (0 .. MAX) DEFAULT 0,
 * </PRE>
* alwaysExamineCandidates [1] BOOLEAN DEFAULT FALSE,
* processSearchIfUnindexed [2] BOOLEAN DEFAULT FALSE,
* includeDebugInfo [3] BOOLEAN DEFAULT FALSE,
* skipResolvingExplodedIndexes [4] BOOLEAN DEFAULT FALSE,
* fastShortCircuitThreshold [5] INTEGER (0 .. MAX) OPTIONAL,
* slowShortCircuitThreshold [6] INTEGER (0 .. MAX) OPTIONAL,
* includeExtendedResponseData [7] BOOLEAN DEFAULT FALSE,
* ... }
* </PRE>
*
* @see MatchingEntryCountResponseControl
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/MatchingEntryCountRequestControl.java
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This class provides a data structure that holds information about a log message that may appear in the Directory Server access log about a search request forwarded to a backend server.

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6-0-3-sources.jar/com/unboundid/util/args/AttributeNameArgumentValueValidator.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6-0-3-sources.jar/com/unboundid/util/args/LDAPURLArgumentValueValidator.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/ToCodeHelper.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/LDAPBindException.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6-0-3-sources.jar/com/unboundid/util/json/JSONValue.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6-0-3-sources.jar/com/unboundid/util/json/JSONBoolean.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6-0-3-sources.jar/com/unboundid/util/json/JSONNull.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6-0-3-sources.jar/com/unboundid/util/json/ServerDetails.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of a delete operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
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/**
* This enum defines the set of access log operation types. 
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the 
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* interoperable way with other types of LDAP servers.

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/AccessLogOperationType.java

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 */

/** *
* This class provides an implementation of a JSON object filter that can
* perform a logical OR across the result obtained from a number of filters.
* The OR filter will match an object only if at least one (and optionally,
* exactly one) of the filters contained in it matches that object. An OR
* filter with an empty set of embedded filters will never match any object.
* &lt;BR&gt;
* &lt;BLOCKQUOTE&gt;
* &lt;B&gt;NOTE:&lt;/B&gt; This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* interoperable way with other types of LDAP servers.
* &lt;/BLOCKQUOTE&gt;
* &lt;BR&gt;
* The fields that are required to be included in an "OR" filter are:
* &lt;UL&gt;
* &lt;LI&gt;
*  { @code orFilters } -- An array of JSON objects, each of which is a valid
*  JSON object filter. At least one of these filters must match a JSON
*  object in order for the OR filter to match. If this is an empty array,
*  then the filter will not match any object.
* &lt;/LI&gt;
* &lt;/UL&gt;
* The fields that may optionally be included in an "OR" filter are:
* &lt;UL&gt;
* &lt;LI&gt;
*  { @code exclusive } -- Indicates whether this should be treated as an
*  exclusive OR. If this is present, then it must have a Boolean value of
*  either { @code true } (to indicate that this OR filter will only match a
*  JSON object if exactly one of the embedded filters matches that object),
*  or { @code false } (to indicate that it is a non-exclusive OR and will
*  match a JSON object as long as at least one of the filters matches that
*  object). If this is not specified, then a non-exclusive OR will be
*  performed.
* &lt;/LI&gt;
* &lt;/UL&gt;
* &lt;H2&gt;Examples&lt;/H2&gt;
* The following is an example of an OR filter that will never match any JSON
* object:
* &lt;PRE&gt;
*  { "filterType" : "or",
*  "orFilters" : [ ] }
* &lt;/PRE&gt;
* The above filter can be created with the code:
* &lt;PRE&gt;
* ORJSONObjectFilter filter = new ORJSONObjectFilter();
* &lt;/PRE&gt;
* &lt;BR&gt;&lt;BR&gt;
* The following is an example of an OR filter that will match any JSON object
that contains either a top-level field named "homePhone" or a top-level
field named "workPhone":
}
The above filter can be created with the code:

```
ORJSONObjectFilter filter = new ORJSONObjectFilter(
    new ContainsFieldJSONObjectFilter("homePhone"),
    new EqualsJSONObjectFilter("workPhone"));
```

Found in path(s):

```
/...unboundidds/jsonfilter/ORJSONObjectFilter.java
```

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This package provides a number of classes that implement support for interacting with JSON objects in the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server. This primarily includes JSON object filters (which are an UnboundID-proprietary mechanism for performing advanced matching on JSON object contents), but also contains other classes in support for interacting with JSON in the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server.

NOTE: The classes within this package, and elsewhere within the {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

The Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server provides a "JSON Object" attribute syntax, which has an OID of "1.3.6.1.4.1.30221.2.3.4", and can be used for attribute types whose values are valid JSON objects. This attribute type supports equality matching (with the jsonObjectExactMatch matching rule as described below, but does not support substring or ordering matching. To create an attribute type definition that uses the JSON object syntax, use a definition like the following (but with the appropriate attribute type name and a non-example OID):

```
attributeTypes: ( 2.999.1.2.3.4
   NAME 'example-json-attribute'
   EQUALITY jsonObjectExactMatch
   SYNTAX 1.3.6.1.4.1.30221.2.3.4 )
```

Matching with the jsonObjectExactMatch Matching Rule

The jsonObjectExactMatch matching rule (OID 1.3.6.1.4.1.30221.2.4.12) is an equality matching rule that can be used to perform exact matching against
* JSON objects. It can be used in an equality search filter whose attribute
* description names an attribute with a JSON object syntax and whose assertion
* value is the string representation of a JSON object to match against values
* of the specified attribute. For example:
* <BLOCKQUOTE>
* (jsonAttr={ "field1" : "value1", "field2":"value2" })
* </BLOCKQUOTE>
* 
* The jsonObjectExactMatch matching rule will also be used to perform matching
* for a compare operation that targets attributes with a JSON object syntax,
* and it will be used internally by the server to prevent an attribute with
* that syntax from having duplicate values, and to identify which value is
* targeted by a modification that attempts to delete a specific value.

* The constraints that the jsonObjectExactMatch matching rule will use when
* determining whether two JSON objects are equal are:
* 
* The names of the fields in each object must be identical, although the
* order in which the fields appear in the string representation is not
* significant. Neither object will be permitted to have a field that is
* not present in the other object. Field names will be treated in a
* case-sensitive manner (e.g., a field named "x" will be considered
* different from a field named "X").
* 
* The values of fields with the same name must be of the same data type.
* For example, the string "true" will not match the Boolean \{@code true\},
* the string "1234" will not match the number 1234, and the string "null"
* will not match the \{@code null\} value. Similarly, a single non-array
* value will not match an array, even if the array contains only that
* value (e.g., so a value of "a" will not match ["a"]).
* 
* The values of fields with the same name must be logically equivalent.
* Logical equivalence is defined as follows for each data type:
* 
* \{@code null\} will only match \{@code null\}.
* \{@code true\} will only match \{@code true\}.
* \{@code false\} will only match \{@code false\}.
* Strings will be compared in a case-insensitive manner, but all
* spaces will be considered significant. This will use logic
* equivalent to the \{@code String.equalsIgnoreCase\} method.
* 
* Numbers will only match other numbers with equivalent numeric
* values, even if they are expressed with different string
* representations. For example, the number 12345 will match the
* number 12345.0 and the number 1.2345e4. Floating-point numbers
* with nonzero fractional components will not match integer numbers
* without fractional components (e.g., 12345 will not match
* 12345.1).
* 
* Arrays will only match arrays containing logically-equivalent
* values in the same order.
* 
* JSON objects that appear as field values or inside arrays will
The matching performed by the jsonObjectExactMatch matching rule is equivalent to that performed by the multi-argument `JSONObject.equals` method with `ignoreFieldNameCase=false`, `ignoreValueCase=true`, and `ignoreArrayOrder=false`.

The jsonObjectFilterExtensibleMatch matching rule (OID 1.3.6.1.4.1.30221.2.4.13) provides a much greater degree of flexibility for performing matching against JSON objects than the jsonObjectExactMatch matching rule, but it is only expected to be used in LDAP filters that perform extensible matching (`<B>NOTE</B>`: do not attempt to use the jsonObjectFilterExtensibleMatch matching rule as the default equality matching rule for attribute types). In such filters, the filter should include an attribute description that names an attribute with the JSON object syntax, a matching rule ID of jsonObjectFilterExtensibleMatch (or the numeric OID 1.3.6.1.4.1.30221.2.4.13), and an assertion value that is a JSON object that defines the constraints for identifying which JSON objects to match.

For example:

```
(jsonAttr:jsonObjectFilterExtensibleMatch:={ "filterType":"fieldEquals", "fieldName":"field1", "fieldValue":"value1" })
```

All JSON object filters must include a field named "filterType" that indicates the type of matching to be performed. The other fields that are required to be present, or that may optionally be present, vary based on the specified filter type. See the class-level documentation for each of the subclasses for detailed information about the type of matching performed by that type of filter, as well as the sets of required and optional fields for that filter type.

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/package-info.java
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/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at the end of the changelog.
* The first change of the batch will be the next change processed on any of the
* servers in the replication topology.
* <BR>
* <BLOCKQUOTE>
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 */

/**
 * This class provides a SASL DIGEST-MD5 bind request implementation as
 * described in <A HREF="http://www.ietf.org/rfc/rfc2831.txt">RFC 2831</A>. The
 * DIGEST-MD5 mechanism can be used to authenticate over an insecure channel
 * without exposing the credentials (although it requires that the server have
 * access to the clear-text password). It is similar to CRAM-MD5, but provides
 * better security by combining random data from both the client and the server,
 * and allows for greater security and functionality, including the ability to
 * specify an alternate authorization identity and the ability to use data
* integrity or confidentiality protection.

* Elements included in a DIGEST-MD5 bind request include:

* <UL>
  * <LI>Authentication ID -- A string which identifies the user that is attempting to authenticate. It should be an "authzId" value as described in section 5.2.1.8 of RFC 4513. That is, it should be either "dn:" followed by the distinguished name of the target user, or "u:" followed by the username. If the "u:" form is used, then the mechanism used to resolve the provided username to an entry may vary from server to server.</LI>
  * <LI>Authorization ID -- An optional string which specifies an alternate authorization identity that should be used for subsequent operations requested on the connection. Like the authentication ID, the authorization ID should use the "authzId" syntax.</LI>
  * <LI>Realm -- An optional string which specifies the realm into which the user should authenticate.</LI>
  * <LI>Password -- The clear-text password for the target user.</LI>
* </UL>

* <H2>Example</H2>

* The following example demonstrates the process for performing a DIGEST-MD5 bind against a directory server with a username of "john.doe" and a password of "password":

* <PRE>
* DIGESTMD5BindRequest bindRequest =
  new DIGESTMD5BindRequest("u:john.doe", "password");
* BindResult bindResult;
* try
  *
  * bindResult = connection.bind(bindRequest);
  * // If we get here, then the bind was successful.
  *
* } catch (LDAPException le)
  *
  * // The bind failed for some reason.
  * bindResult = new BindResult(le.toLDAPResult());
  * ResultCode resultCode = le.getResultCode();
  * String errorMessageFromServer = le.getDiagnosticMessage();
  *
* } */

* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/DIGESTMD5BindRequest.java

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/**
 * This class provides an implementation of a request control that can be
 * included in a bind request to indicate that the server should include a
 * control in the bind response with information about recent login attempts
 * for the user.
 * <BR>
 * <BLOCKQUOTE>
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 *   considered stable or mature enough to be guaranteed to work in an
 */
This control has an OID of 1.3.6.1.4.1.30221.2.5.61 and no value. The criticality may be either {	exttt{true}} or {	exttt{false}}.

@see GetRecentLoginHistoryRequestControl

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This class provides an LDAP command-line tool that may be used to perform compare operations in an LDAP directory server. This class, and other classes within the \{code com.unboundid.ldap.sdk.unboundidds\} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

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This class provides an implementation of a request control that may be
included in a search request to indicate that the server should process the
search even if it cannot use its defined indexes to identify matching entries
efficiently. This control will only have any effect if the requester has the
unindexed-search-with-control privilege. If the user does not have that
privilege, then an unindexed search request will either be accepted or
rejected based on whether that user has the unindexed-search privilege (and
it doesn't make any sense for the same user to have both the unindexed-search
and unindexed-search-with-control privileges).

This request control has an OID of "1.3.6.1.4.1.30221.2.5.55", may have a
criticality of either true or false, and does not take a value.

@see RejectUnindexedSearchRequestControl

This request control has an OID of "1.3.6.1.4.1.30221.2.5.55", may have a
criticality of either true or false, and does not take a value.

@see RejectUnindexedSearchRequestControl

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This request control has an OID of "1.3.6.1.4.1.30221.2.5.55", may have a
criticality of either true or false, and does not take a value.

@see RejectUnindexedSearchRequestControl

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/**
* This class provides a response control that may be used to provide the
* backend set ID(s) for any relevant backend sets accessed during the course
* of processing an operation. It may be returned in response to a request
* containing either the get backend set ID request control or the route to
* backend set request control. For add, simple bind, compare, delete,
* modify, and modify DN operations, the LDAP result message for the operation
* may contain zero or one get backend set ID response control. For extended
* operations, the extended result message may contain zero, one, or multiple
* get backend set ID response controls. For search operations, each search
* result entry may contain zero or one get backend set ID response control,
* while the search result done message will not contain any such control. See
* the {@link GetBackendSetIDRequestControl} class documentation for a more
* complete description of the usage for these controls.
* <BR>
* <BLOCKQUOTE>
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The get backend set ID response control has an OID of "1.3.6.1.4.1.30221.2.5.34", a criticality of false, and a value with the following encoding:

```pre
GET_BACKEND_SET_ID_RESPONSE_VALUE ::= SEQUENCE {
    entryBalancingRequestProcessorID OCTET STRING,
    backendSetIDs SET SIZE (1..MAX) OF OCTET STRING,
    ... }
```

@see GetBackendSetIDRequestControl
@see RouteToBackendSetRequestControl

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*/
/**
/* This class provides an implementation of an extended request that may be used
* to deregister a YubiKey OTP device with the Directory Server so that it may
* no longer used to authenticate using the UNBOUNDID-YUBIKEY-OTP SASL
* mechanism.
* 
* <BR>
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* 
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.55, and it must
* include a request value with the following encoding:
* 
* <BR><BR>
* <PRE>
*   DeregisterYubiKeyOTPDeviceRequest ::= SEQUENCE {
*        authenticationID     [0] OCTET STRING OPTIONAL,
*        staticPassword       [1] OCTET STRING OPTIONAL,
*        yubiKeyOTP           [2] OCTET STRING OPTIONAL,
*        ... }
* </PRE>
*
* @see  RegisterYubiKeyOTPDeviceExtendedRequest
* @see  com.unboundid.ldap.sdk.unboundidds.UnboundIDYubiKeyOTPBindRequest
* @see  com.unboundid.ldap.sdk.unboundidds.RegisterYubiKeyOTPDevice
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeregisterYubiKeyOTPDeviceExtendedRequest.java
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/**
 * This class provides an implementation of a JSON object filter that can be
 * used to identify JSON objects that have string value that matches a specified
 * substring. At least one of the {code startsWith}, {code contains}, and
 * {code endsWith} components must be included in the filter. If multiple
 * substring components are present, then any matching value must contain all
 * of those components, and the components must not overlap.
 * <BR>
 * <BLOCKQUOTE>
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The fields that are required to be included in a "substring" filter are:

- `{@code field}` -- A field path specifier for the JSON field for which to make the determination. This may be either a single string or an array of strings as described in the "Targeting Fields in JSON Objects" section of the class-level documentation for [{@link JSONObjectFilter}].

The fields that may optionally be included in a "substring" filter are:

- `{@code startsWith}` -- A string that must appear at the beginning of matching values.
- `{@code contains}` -- A string, or an array of strings, that must appear in matching values. If this is an array of strings, then a matching value must contain all of these strings in the order provided in the array.
- `{@code endsWith}` -- A string that must appear at the end of matching values.
- `{@code caseSensitive}` -- Indicates whether string values should be treated in a case-sensitive manner. If present, this field must have a Boolean value of either `{@code true}` or `{@code false}`. If it is not provided, then a default value of `{@code false}` will be assumed so that strings are treated in a case-insensitive manner.

**Examples**

The following is an example of a substring filter that will match any JSON object with a top-level field named "accountCreateTime" with a string value that starts with "2015":

```
{ "filterType" : "substring",
  "field" : "accountCreateTime",
  "startsWith" : "2015" }
```

The above filter can be created with the code:
* SubstringJSONObjectFilter filter =
*     new SubstringJSONObjectFilter("accountCreateTime", "2015", null,
*           null);
* </PRE>
* <BR><BR>
* The following is an example of a substring filter that will match any JSON
* object with a top-level field named “fullName” that contains the substrings
* "John" and "Doe", in that order, somewhere in the value:
* </PRE>
*     { "filterType" : "substring",
*       "field" : "fullName",
*       "contains" : [ "John", "Doe" ] }
* </PRE>
* The above filter can be created with the code:
* </PRE>
* SubstringJSONObjectFilter filter =
*     new SubstringJSONObjectFilter(Collections.singletonList("fullName"),
*           null, Arrays.asList("John", "Doe"), null);
* </PRE>
*/

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/**
* This class provides an implementation of a response control that can be
* included in the response to a successful bind operation to provide
* information about recent successful and failed authentication attempts.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.62, a criticality of
* { false }, and a value that is a JSON object with two top-level fields:
* successful-attempts and failed-attempts. The value for each of these fields
* will be an array of JSON objects with the following fields:
* <UL>
*   <LI>timestamp -- The timestamp of the login attempt in the ISO 8601 format
*       described in RFC 3339.</LI>
*   <LI>client-ip-address -- A string representation of the IP address of the
*       client that tried to authenticate.</LI>
*   <LI>authentication-method -- The name of the method that the client used
*       when trying to authenticate.</LI>
*   <LI>failure-reason -- A string providing a general reason that the
*       authentication attempt failed (only used for failed attempts).</LI>
*   <LI>additional-attempt-count -- An integer value that indicates how many
*       other attempts were made on the same date with the same settings for
*       all fields except the timestamp.</LI>
* </UL>
* @see GetRecentLoginHistoryRequestControl
*/
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/**
 * This class defines a task state, which provides information about the current
 * state of processing for a scheduled task.
 * <BR>
 * <BR>
 * <B>NOTE:</B>  This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 */
/**
 * This class provides an implementation of an LDAP control that can be included
 * in add, bind, modify, modify DN, and certain extended requests to indicate
 * the level of replication assurance desired for the associated operation.
 * <BR>
 * @<BLOCKQUOTE>
 *   @NOTE: This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
 *   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
 *   for proprietary functionality or for external specifications that are not
 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * The OID for this control is 1.3.6.1.4.1.30221.2.5.28, and it may have a
 * criticality of either TRUE or FALSE. It must have a value with the following
 * encoding:
 * @<PRE>
 *   AssuredReplicationRequest ::= SEQUENCE {
 *      minimumLocalLevel           [0] LocalLevel OPTIONAL,
 *      maximumLocalLevel           [1] LocalLevel OPTIONAL,
 *      minimumRemoteLevel          [2] RemoteLevel OPTIONAL,
 *      maximumRemoteLevel          [3] RemoteLevel OPTIONAL,
 *      timeoutMillis               [4] INTEGER (1 .. 2147483647) OPTIONAL,
 *      sendResponseImmediately     [5] BOOLEAN DEFAULT FALSE,
 *      ... }
 *
 *   LocalLevel ::= ENUMERATED {
 *      none                    (0),
 *      receivedAnyServer       (1),
 *      processedAllServers     (2),
 *      ... }
 *
 *   RemoteLevel ::= ENUMERATED {
 *      none                           (0),
 *      receivedAnyRemoteLocation      (1),
 *      receivedAllRemoteLocations     (2),
 *      processedAllRemoteServers      (3),
 *      ... }
 *
 */

* AssuredReplicationRequest ::= SEQUENCE {
  * minimumLocalLevel [0] LocalLevel OPTIONAL,
  * maximumLocalLevel [1] LocalLevel OPTIONAL,
  * minimumRemoteLevel [2] RemoteLevel OPTIONAL,
  * maximumRemoteLevel [3] RemoteLevel OPTIONAL,
  * timeoutMillis [4] INTEGER (1 .. 2147483647) OPTIONAL,
  * sendResponseImmediately [5] BOOLEAN DEFAULT FALSE,
  * ... }
 *
* LocalLevel ::= ENUMERATED {
  * none (0),
  * receivedAnyServer (1),
  * processedAllServers (2),
  * ... }
 *
* RemoteLevel ::= ENUMERATED {
  * none (0),
  * receivedAnyRemoteLocation (1),
  * receivedAllRemoteLocations (2),
  * processedAllRemoteServers (3),
  * ... }
 */

* Note: This class, and other classes within the
* package structure, are only
* supported for use against Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 server products. These classes provide support
* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.

* The OID for this control is 1.3.6.1.4.1.30221.2.5.28, and it may have a
* criticality of either TRUE or FALSE. It must have a value with the following
* encoding:

* AssuredReplicationRequest ::= SEQUENCE {
  * minimumLocalLevel [0] LocalLevel OPTIONAL,
  * maximumLocalLevel [1] LocalLevel OPTIONAL,
  * minimumRemoteLevel [2] RemoteLevel OPTIONAL,
  * maximumRemoteLevel [3] RemoteLevel OPTIONAL,
  * timeoutMillis [4] INTEGER (1 .. 2147483647) OPTIONAL,
  * sendResponseImmediately [5] BOOLEAN DEFAULT FALSE,
  * ... }

* LocalLevel ::= ENUMERATED {
  * none (0),
  * receivedAnyServer (1),
  * processedAllServers (2),
  * ... }
 *
* RemoteLevel ::= ENUMERATED {
  * none (0),
  * receivedAnyRemoteLocation (1),
  * receivedAllRemoteLocations (2),
  * processedAllRemoteServers (3),
  * ... }
 */

* The following example demonstrates the use of the assured replication request
* control in conjunction with a delete operation to request that the server not
* return the delete result to the client until the delete has been applied to
* all available servers in the local data center and has also been replicated
* to at least one remote data center:
```
* DeleteRequest deleteRequest = new DeleteRequest(
  *   "uid=test.user,ou=People,dc=example,dc=com")
* deleteRequest.addControl(new AssuredReplicationRequestControl(
*   AssuredReplicationLocalLevel.PROCESSED_ALL_SERVERS,
*   AssuredReplicationRemoteLevel.RECEIVED_ANY_REMOTE_LOCATION,
*   5000L));
* LDAPResult deleteResult = connection.delete(deleteRequest);
* 
* if (deleteResult.getResultCode() == ResultCode.SUCCESS)
* {
*   AssuredReplicationResponseControl assuredReplicationResponse =
*     AssuredReplicationResponseControl.get(deleteResult);
*   if (assuredReplicationResponse == null)
*   {
*     // The entry was deleted, but its replication could not be confirmed in
*     // either the local or remote data centers.
*   } else
*   {
*     if (assuredReplicationResponse.localAssuranceSatisfied())
*     {
*       if (assuredReplicationResponse.remoteAssuranceSatisfied())
*       {
*         // The entry was deleted. The delete has been applied across all
*         // available local servers, and has been replicated to at least one
*         // remote data center.
*       } else
*       {
*         // The entry was deleted. The delete has been applied across all
*         // available local servers, but cannot be confirmed to have yet
*         // been replicated to any remote data centers.
*       }
*     } else if (assuredReplicationResponse.remoteAssuranceSatisfied())
*     {
*       // The entry was deleted. The delete has been confirmed to have been
*       // replicated to at least one remote data center, but cannot be
*       // confirmed to have yet been applied to all available local servers.
*     } else
*     {
*       // The entry was deleted, but its replication could not be confirmed
*       // to either local servers or remote data centers.
*     }
*   }
* }
```
* else
* {  
*   // The entry could not be deleted.
* }  
* </PRE>
* 
* @see AssuredReplicationResponseControl
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-  
  jar/com/unboundid/ldap/sdk/unboundidds/controls/AssuredReplicationRequestControl.java
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This class defines a monitor entry that provides general information about the state of the Directory Server. The general monitor entry is the top-level monitor entry that is generated by the monitor backend and is the parent of all monitor entries generated by the registered monitor providers.

Information that may be included in the general monitor entry includes:

- The number of connections currently established to the server.
- The maximum number of connections that have been established at any one time.
- The total number of connections established to the server since startup.
- The time that the directory server was started.
- The current time on the server.
- The length of time in milliseconds that the server has been online.
- A user-friendly string that describes the length of time that the server has been online.
- The name of the directory server product.
- The name of the vendor that provides the directory server.
- The server version string.
- The DNs of the configuration entries for any third-party extensions loaded in the server.

The server should present at most one general monitor entry. It can be retrieved using the `MonitorManager#getGeneralMonitorEntry` method. This entry provides specific methods for accessing information about the server (e.g., the `GeneralMonitorEntry#getCurrentConnections` method can be used to retrieve the number of connections currently established). Alternately, this information may be accessed using the generic API. See the `MonitorManager` class documentation for an example that demonstrates the use of the generic API for accessing monitor data.
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/**
* This class defines a data structure that will provide information about
* errors that could cause an authentication attempt to fail. It includes a
* number of predefined failure types, but also allows for the possibility of
* additional failure types that have not been defined.
* <BR>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/**
 * This package contains a number of helper classes for invoking and interacting
 * with scheduled tasks in Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
 * 8661 server products. Tasks may be used to perform various kinds of
 * administrative functions, like backing up and restoring backends, importing
 * and exporting data, rebuilding indexes, and shutting down or restarting the
 * server.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> The classes within this package, and elsewhere within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
 *   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
 *   for proprietary functionality or for external specifications that are not
 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * The {@code TaskManager} class provides a number of utility methods for
 * interacting with tasks in a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
 * 8661 Directory Server. The {@code Task} class and its subclasses provide a
 * framework for accessing the generic and task-specific information associated
 * with tasks.
 */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/package-info.java
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*/

/**
 * This class provides a data structure that provides information about the
 * result codes associated with a particular type of operation (or across all
 * types of operations, if the associated operation type is [@code null]).
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
 *   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
 *   for proprietary functionality or for external specifications that are not
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/OperationResultCodeInfo.java
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*/
/**
* This class defines an operation that may be used in conjunction with the
* password policy state extended operation. A password policy state operation
* can be used to get or set various properties of the password policy state for
* a user.
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Operations that are available for use with the password policy state
* operation include:
* <UL>
*   <LI>Get the DN of the password policy configuration entry for the target
*       user. </LI>
*   <LI>Determine whether an account is usable (may authenticate or be used as
*       an alternate authorization identity). </LI>
* </UL>
* Retrieve the set of account usability notice, warning, and error messages for a user.
* Get, set, and clear the account disabled flag for the target user.
* Get, set, and clear the account activation time for the target user.
* Get, set, and clear the account expiration time for the target user.
* Get the length of time in seconds until the target user account expires.
* Get the time that the target user's password was last changed.
* Get and clear the time that the first password expiration warning was sent to the user.
* Get the length of time in seconds until the target user's password expires and the password expiration time for the account.
* Get the first warning about an upcoming password expiration.
* Determine whether the user's password is expired.
* Determine whether the account is locked because of failed authentication attempts, an idle lockout, or a password reset lockout.
* Get, update, set, and clear the list of times that the target user has unsuccessfully tried to authenticate since the last successful authentication.
* Get the number of remaining failed authentication attempts for the target user before the account is locked.
* Get the length of time in seconds until the target user's account is automatically unlocked after it was locked due to failed authentication attempts.
* Get, set, and clear the time that the user last authenticated to the server.
* Get, set, and clear the IP address of the client from which the user last authenticated to the server.
* Get the length of time in seconds until the user account may be locked after remaining idle.
* Get, set, and clear the flag that controls whether the target user must change his/her password before being allowed to perform any other operations.
* Get the length of time in seconds until the user's account is locked after failing to change the password after an administrative reset.
* Get, update, set, and clear the times that the target user has authenticated using a grace login after the password had expired.
* Retrieve the number of remaining grace logins for the user.
* Get, set, and clear the required password change time for the target user.
* Retrieve the length of time in seconds until the target user's account will be locked as a result of failing to comply with a password change by required time.
* <LI>Get the password history count for the target user.</LI>
* <LI>Clear the password history for the target user.</LI>
* <LI>Get information about or purge a user's retired password.</LI>
* <LI>Get information about which SASL mechanisms are available for a user.</LI>
* <LI>Get information about which OTP delivery mechanisms are available for a user.</LI>
* <LI>Determine whether a user has any TOTP shared secrets and manipulate the registered secrets.</LI>
* <LI>Get, set, and clear the public IDs of any YubiKey OTP devices registered for a user.</LI>
* <LI>Determine whether the user has a static password.</LI>
* <LI>Get, set, and clear the time that the server last performed validation on a password provided in a bind request.</LI>
* <LI>Get and set whether the user's account is locked because it contains a password that does not satisfy all of the configured password validators.</LI>
* <LI>Get and clear a user's recent login history.</LI>
*/

Note that many of these methods are dependent upon the password policy configuration for the target user and therefore some of them may not be applicable for some users. For example, if password expiration is not enabled in the password policy associated with the target user, then operations that involve password expiration will have no effect and/or will have a return value that indicates that password expiration is not in effect.

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateOperation.java
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/**
* This class provides a data structure for representing information about a
* soft-deleted entry, which results from a soft delete operation that has
* caused the entry to be hidden so that it is not accessible to clients under
* normal circumstances, rather than causing the entry to be completely removed
* from the server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* A soft-deleted entry will have its RDN altered to include the entryUUID for
* the original entry, will be updated to include the "ds-soft-delete-entry"
* auxiliary object class, and will have additional metadata attributes added to
* it which may include:
* <UL>
*   <LI>
*     ds-soft-delete-from-dn -- This specifies the DN assigned to the entry
*     before it was converted to a soft-deleted entry.
*   </LI>
*   <LI>
*     ds-soft-delete-timestamp -- This specifies the time that the entry was
*     converted to a soft-deleted entry.
* </UL>
* ds-soft-delete-requester-dn -- This specifies the DN of the user who requested the soft delete operation.
* ds-soft-delete-requester-ip-address -- This specifies the IP address of the client that requested the soft delete operation.

Soft-deleted entries may only be retrieved by users who have the soft-delete-read privilege, and then only by clients who issue a search request with one or more of the following characteristics:

* The search operation has a scope of baseObject and a base DN which specifically targets a soft-deleted entry.
* The search operation includes a filter with a component that will specifically match entries that have the ds-soft-delete-entry object class (e.g., "(objectClass=ds-soft-delete-entry)").
* The search operation includes a [SoftDeletedEntryAccessRequestControl].

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*/
/**
* This class provides an implementation of an LDAP command-line tool that may
* be used to apply changes to a directory server. The changes to apply (which
* may include add, delete, modify, and modify DN operations) will be read in
* LDIF form, either from standard input or a specified file or set of files.
* This is a much more full-featured tool than the
* {@link com.unboundid.ldap.sdk.examples.LDAPModify} tool
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*/
/**
* This class provides a thread that may be used to periodically display
* progress information for the parallel update program.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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/**
* This class provides a request control which may be included in a delete
* request to indicate that the server should perform a soft delete rather than
* a hard delete. A soft delete will leave the entry in the server, but will
* mark it hidden so that it can only be retrieved with a special request
* (e.g., one which includes the [ @link SoftDeletedEntryAccessRequestControl ] or
* a filter which includes an "(objectClass=ds-soft-deleted-entry)" component).
A soft-deleted entry may later be undeleted (using an add request containing the \[link UndeleteRequestControl\]) in order to restore them with the same or a different DN.

* <BR>

* <BLOCKQUOTE>

  * <B>NOTE:</B> This class, and other classes within the
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  * for proprietary functionality or for external specifications that are not
  * considered stable or mature enough to be guaranteed to work in an
  * interoperable way with other types of LDAP servers.

  * </BLOCKQUOTE>

* <BR>

* The criticality for this control may be either \{code TRUE\} or \{code FALSE\},
* but this will only impact how the delete request is to be handled by servers
* which do not support this control. A criticality of \{code TRUE\} will cause
* any server which does not support this control to reject the request, while
* a criticality of \{code FALSE\} should cause the delete request to be
* processed as if the control had not been included (i.e., as a regular "hard"
* delete).

* <BR><BR>

* The control may optionally have a value. If a value is provided, then it
* must be the encoded representation of the following ASN.1 element:

* <PRE>

  * SoftDeleteRequestValue ::= SEQUENCE {
  *     returnSoftDeleteResponse     [0] BOOLEAN DEFAULT TRUE,
  *     ... }

* </PRE>

* <BR><BR>

* The following example demonstrates the use of the soft delete request control
* to remove the "uid=test,dc=example,dc=com" user with a soft delete operation,
* and then to recover it with an undelete operation:

* <PRE>

  * // Perform a search to verify that the test entry exists.
  * SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
  *     SearchScope.SUB, Filter.createEqualityFilter("uid", "test"));
  * SearchResult searchResult = connection.search(searchRequest);
  * LDAPTestUtils.assertEntriesReturnedEquals(searchResult, 1);
  * String originalDN = searchResult.getSearchEntries().get(0).getDN();

  * // Perform a soft delete against the entry.
  * DeleteRequest softDeleteRequest = new DeleteRequest(originalDN);
  * softDeleteRequest.addControl(new SoftDeleteRequestControl());
  * LDAPResult softDeleteResult = connection.delete(softDeleteRequest);
  * LDAPTestUtils.assertEntryReturnedEquals(softDeleteResult, originalDN);

  * // Verify that a soft delete response control was included in the result.

  * </PRE>
* SoftDeleteResponseControl softDeleteResponseControl =
*     SoftDeleteResponseControl.get(softDeleteResult);
* String softDeletedDN = softDeleteResponseControl.getSoftDeletedEntryDN();
*
* // Verify that the original entry no longer exists.
* LDAPTestUtils.assertEntryMissing(connection, originalDN);
*
* // Verify that the original search no longer returns any entries.
* searchResult = connection.search(searchRequest);
* LDAPTestUtils.assertNoEntriesReturned(searchResult);
*
* // Verify that the search will return an entry if we include the
* // soft-deleted entry access control in the request.
* searchRequest.addControl(new SoftDeletedEntryAccessRequestControl());
* searchResult = connection.search(searchRequest);
* LDAPTestUtils.assertEntriesReturnedEquals(searchResult, 1);
*
* // Perform an undelete operation to restore the entry.
* AddRequest undeleteRequest = UndeleteRequestControl.createUndeleteRequest(  *
*     originalDN, softDeletedDN);
* LDAPResult undeleteResult = connection.add(undeleteRequest);
*
* // Verify that the original entry is back.
* LDAPTestUtils.assertEntryExists(connection, originalDN);
*
* // Permanently remove the original entry with a hard delete.
* DeleteRequest hardDeleteRequest = new DeleteRequest(originalDN);  *
*     hardDeleteRequest.addControl(new HardDeleteRequestControl());
* LDAPResult hardDeleteResult = connection.delete(hardDeleteRequest);
* </PRE>
* Note that this class provides convenience methods that can be used to easily
* create a delete request containing an appropriate soft delete request
* control. Similar methods can be found in the
* [ @link HardDeleteRequestControl ] and [ @link UndeleteRequestControl ] classes
* for creating appropriate hard delete and undelete requests, respectively.
* *
* @see  HardDeleteRequestControl
* @see  SoftDeleteResponseControl
* @see  SoftDeletedEntryAccessRequestControl
* @see  UndeleteRequestControl
*/

Found in path(s):
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/SoftDeleteRequestControl.java

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This class defines a Directory Server task that can be used to invoke a task written as a Groovy script using the UnboundID Server SDK.

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* */
/**
* This class defines a Directory Server task that can be used to invoke a task
* written as a Groovy script using the UnboundID Server SDK.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
The properties that are available for use with this type of task include:

- The fully-qualified name of the Groovy class providing the logic for the scripted task. This must be provided.
- A list of the arguments to use for the task.

Found in path(s):

```
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/tasks/GroovyScriptedTask.java
```

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 */
/**
 * This class provides a request control which may be used to request that the
 * Directory Proxy Server forward the associated operation to a specific backend
 * set associated with an entry-balancing request processor. It may be either
 * an absolute routing request, indicating that the target backend set(s) are
 * the only ones that may be used to process the operation, or it may be used to
 * provide a routing hint in lieu of accessing the global index.
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 * supported for use against Ping Identity, UnboundID, and
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 * for proprietary functionality or for external specifications that are not
 * considered stable or mature enough to be guaranteed to work in an
 * interoperable way with other types of LDAP servers.
 * <*/

* This control may be used for a number of different kinds of requests, as
* follows:
* <UL>
* <LI>For an add request that uses absolute routing, exactly one target
*     backend set ID must be specified, and the request will be sent only to
*     that backend set.
* <BR>
* <B>WARNING</B>: The use of absolute routing for an add
*     operation bypasses the check to ensure that no entry already exists
*     with the same DN as the new entry, so it is possible that an add
*     performed immediately below the balancing point could result in
*     creating an entry in one backend set with the same DN as another entry
*     in a different backend set. Similarly, if the entry-balancing request
*     processor is configured to broadcast add operations outside the
*     balancing point rather than relying on those adds to be replicated,
*     then it is strongly recommended that absolute routing not be used for
*     add operations outside the balancing point because that will cause the
*     entry to be added to only one backend set rather than to all backend
*     sets.</LI>
* <LI>For an add request that uses a routing hint, exactly one target backend
*     set ID must be specified for the first guess, although any number of
*     fallback set IDs may be specified. For entries immediately below the
*     balancing point, the routing hint will be used instead of a placement
*     algorithm in order to select which backend set should hold the entry
*     (and the fallback sets will not be used). For entries more than one
*     level below the balancing point, the routing hint will be used in lieu
*     of the global index as an attempt to determine where the parent entry
*     exists, and the fallback sets may be used if the parent entry doesn't
*     exist in the first guess set. For entries outside the balancing point,
*     if the entry-balancing request processor is configured to add entries
to one set and allow them to be replicated to other sets, then the
first guess hint will be used to select the set to which the entry will
be added (and the fallback sets will not be used). An add operation
with a routing hint cannot be used to create multiple entries with the
same DN in different backend sets, nor can it cause an entry outside
the balancing point to exist in only one backend set.</LI>
* <LI>For a simple bind request that uses absolute routing, exactly one
target backend set ID must be specified, and the request will be sent
only to that backend set. If the bind fails in that set, even if the
failure is because the target entry does not exist in that backend set,
then the failure will be returned to the client rather than attempting
the operation in a different backend set.</LI>
* <LI>For a simple bind request that uses a routing hint, exactly one target
backend set ID must be specified for the first guess, although any
number of fallback set IDs may be specified. If the bind fails in the
first guess set, it may be re-attempted in the fallback sets.</LI>
* <LI>For a compare request that uses absolute routing, exactly one target
backend set ID must be specified, and the request will be sent only to
that backend set. If the compare fails in that set, even if the
failure is because the target entry does not exist in that set, then
the failure will be returned to the client rather than attempting the
operation in a different backend set.</LI>
* <LI>For a compare request that uses a routing hint, exactly one target
backend set ID must be specified for the first guess, although any
number of fallback set IDs may be specified. If the compare operation
fails in the first guess set in a way that suggests the target entry
does not exist in that backend set, then it will be re-attempted in the
fallback sets.</LI>
* <LI>For a delete request that uses absolute routing, exactly one target
backend set ID must be specified, and the request will be sent only to
that backend set. If the delete fails in that set, even if the failure
is because the target entry does not exist in that set, then the
failure will be returned to the client rather than attempting the
operation in a different backend set.
* <B>WARNING</B>: If the entry-balancing request processor is configured
to broadcast delete operations outside the balancing point rather than
relying on those deletes to be replicated, then it is strongly
recommended that absolute routing not be used for delete operations
outside the balancing point because that will cause the entry to be
deleted in only one backend set and will remain in all other backend
sets.</LI>
* <LI>For a delete request that uses a routing hint, exactly one target
backend set ID must be specified for the first guess, although any
number of fallback set IDs may be specified. For entries below the
balancing point, the routing hint will be used in lieu of the global
index in order to determine which backend set contains the target
entry. If the delete fails in the first guess set in a way that
suggests that the target entry does not exist in that backend set, then
it will be re-attempted in the fallback sets.
For entries outside the balancing point, if the entry-balancing request
processor is configured to delete entries from only one backend set
and allow that delete to be replicated to all other sets, then the
routing hint may be used to select the set from which that entry will
be deleted. A delete operation with a routing hint cannot be used to
cause an entry outside the balancing point to be removed from only one
backend set while leaving it in the remaining sets.
For an atomic multi-update extended request, only absolute routing is
supported, and the route to backend set request control must be
attached to the extended operation itself and not to any of the
requests contained inside the multi-update. Exactly one backend set ID
must be specified, and the multi-update request will be sent only to
that backend set.
For a non-atomic multi-update extended request, the extended operation
must not include a route to backend set request control. However, any
or all of the requests inside the multi-update request may include a
route to backend set request control, and in that case it will be
treated in the same way as for a request of the same type not
included in multi-update request (e.g., if a multi-update extended
operation includes an add request with a route to backend set request
control, then that route control will have the same effect as for the
same add request with the same control processed outside a multi-update
operation).
For an extended request that will be processed by a proxied extended
operation handler, the request may include a route to backend set
request control and that control will be used to select the target
backend sets instead of the proxied extended operation handler's
[@code selectBackendSets] method.
For a modify request that uses absolute routing, exactly one target
backend set ID must be specified, and the request will be sent only to
that backend set. If the modify fails in that set, even if the failure
is because the target entry does not exist in that set, then the
failure will be returned to the client rather than attempting the
operation in a different backend set.

<b>WARNING</b>: When processing a modify operation against the
balancing point entry itself, the Directory Proxy Server will typically
send that modify request to all backend sets to ensure that it is
properly applied everywhere. However, with an absolute routing
request, the modify operation will be sent only to one backend set,
which will cause the entry in that set to be out of sync with the entry
in all other sets. It is therefore strongly recommended that absolute
routing not be used for modify operations that target the balancing
point entry. Similarly, if the entry-balancing request processor is
configured to broadcast modify operations targeting entries outside the
balancing point to all backend sets rather than having those modify operations replicated to the other backend sets, it is strongly recommended that absolute routing not be used for those operations because the request will be sent to only one set, causing the entry in that set to be out of sync with the corresponding entry in other backend sets.\(<LI>\)

For a modify request that uses a routing hint, exactly one target backend set ID must be specified for the first guess, although any number of fallback set IDs may be specified. For entries below the balancing point, the routing hint will be used in lieu of the global index in order to determine which backend set contains the target entry. If the modify attempt fails in the first guess set in a way that suggests the target entry does not exist in that backend set, then it will be re-attempted in the fallback sets.

For modify operations that target the balancing point entry itself, the entry-balancing request processor will send the request to all backend sets, and the routing hint will not be used. Similarly, for entries outside the balancing point, if the entry-balancing request processor is configured to modify entries in only one backend set and allow that modify operation to be replicated to all other sets, then the routing hint may be used to select the set in which that entry will be modified. A modify operation with a routing hint cannot be used to cause an entry at or outside the balancing point to be updated in only one backend set, leaving it out of sync with the corresponding entry in the remaining sets.\(<LI>\)

For a modify DN request that uses absolute routing, exactly one target backend set ID must be specified, and the request wil be sent only to that backend set. If the modify DN operation fails in that set, even if the failure is because the target entry does not exist in that set, then the failure will be returned to the client rather than attempting the operation in a different backend set.\(<BR>\)

**WARNING**: Processing a modify DN operation with absolute routing bypasses the check to ensure that the new DN for the target entry does not conflict with the DN for an entry that exists in any other backend set. As a result, you are strongly discouraged from using absolute routing for any modify DN operation that would cause the new DN for the entry to be exactly one level below the balancing point. Further, for entries that exist outside the balancing point, if the entry-balancing request processor is configured to broadcast modify DN operations rather than expecting them to be replicated to the other backend sets, a modify DN operation with absolute routing would cause the change to be applied only in one backend set, leaving it out of sync with the other sets.\(<LI>\)

For a modify DN request that uses a routing hint, exactly one target backend set ID must be specified for the first guess, although any number of fallback set IDs may be specified. For entries below the
For entries outside the balancing point, if the entry-balancing request processor is configured to process modify DN operations in one backend set and allow them to be replicated to other backend sets, then the routing hint will be used to select which backend set should receive the modify DN request. A modify DN operation with a routing hint cannot be used to create a conflict in which the same DN exists in multiple backend sets, or in a case in which a modify DN operation outside the balancing point leaves one backend set out of sync with the other sets.

For a search request that uses absolute routing, there may be multiple target backend set IDs only if the scope of the search may include data from multiple backend sets (i.e., the base DN is at or above the balancing point, and the scope include entries at least one level below the balancing point entry). If the base and scope of the search allow it to match only entries at or above the balancing point or only entries within one backend set, then the absolute routing request must target exactly one backend set.

For a search request that uses a routing hint, exactly one target backend set ID must be specified for the first guess, although any number of fallback set IDs may be specified. The routing hint will only be used for cases in which the entire scope of the search is contained entirely within a backend set (i.e., the entire scope is at or above the balancing point, or the entire scope is at least one level below the balancing point).

The OID for a route to backend set request control is "1.3.6.1.4.1.30221.2.5.35", and the criticality may be either `true` or `false`. It must have a value with the following encoding:

```
RouteToBackendRequest ::= SEQUENCE {
  entryBalancingRequestProcessorID     OCTET STRING,
  backendSets                          CHOICE {
    absoluteRoutingRequest     [0] SET OF OCTET STRING,
    routingHint                [1] SEQUENCE {
      firstGuessSetIDs     SET OF OCTET STRING,
      fallbackSetIDs       SET OF OCTET STRING OPTIONAL
    }...
  }
}
```

The use of the route to backend set request control will also cause the server to behave as if the get backend set ID request control had been
* included, so that the get backend set ID response control may be included in
* operation result and search result entry messages as appropriate.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/RouteToBackendSetRequestControl.java
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 */

/**
 * This class provides a request control which may be included in an add request
 * to indicate that the contents of the resulting entry should come not from the
 * data of the add request itself but instead from a soft-deleted entry. This
* can be used to recover an entry that was previously removed by a delete request containing the [@link SoftDeleteRequestControl].
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* The criticality for this control should always be [@code TRUE]. The
* criticality will have no effect on servers that do support this control, but
* a criticality of [@code TRUE] will ensure that a server which does not
* support soft deletes does not attempt to process the add request. If the
* criticality were [@code FALSE], then any server that does not support the
* control would simply ignore it and attempt to add the entry specified in the
* add request (which will have details about the undelete to be processed).
* <BR><BR>
* The control may optionally have a value. If a value is provided, then it
* must be the encoded representation of an empty ASN.1 sequence, like:
* <PRE>
*   UndeleteRequestValue ::= SEQUENCE {
*     ... }
* </PRE>
* In the future, the value sequence may allow one or more elements to customize
* the behavior of the undelete operation, but at present no such elements are
* defined.
* See the documentation for the [@link SoftDeleteRequestControl] class for an
* example demonstrating the use of this control.
*
* @see  HardDeleteRequestControl
* @see  SoftDeleteRequestControl
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/UndeleteRequestControl.java
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 */

/**
 * This class defines an extended request that may be used to request that a
 * Ping Identity Directory Server instance (or related Ping Identity server
 * product) replace its listener certificate. The new certificate data may be
 * contained in a key store file on the server filesystem or included in the
 * extended request itself.
 * <BR>
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 * <B>NOTE:</B> This class, and other classes within the
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 */
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This extended request has an OID of 1.3.6.1.4.1.30221.2.6.68 and a value with the following encoding:

```
ReplaceListenerCertificateValue ::= SEQUENCE {
  keyStoreContent  CHOICE {
    keyStoreFile          [0]  KeyStoreFileSequence,
    keyStoreData          [1]  KeyStoreDataSequence,
    certificateData       [2]  CertificateDataSequence,
    ... },
  keyManagerProvider     [3]  OCTET STRING,
  trustBehavior         CHOICE {
    trustManagerProvider   [4]  OCTET STRING,
    useJVMDefaultTrustManagerProvider [5] NULL,
    ... },
  targetCertificateAlias [6]  OCTET STRING OPTIONAL,
  reloadHTTPConnectionHandlerCertificates [7] BOOLEAN DEFAULT FALSE,
  skipCertificateValidation [16] BOOLEAN DEFAULT FALSE,
  ... }

KeyStoreFileSequence ::= SEQUENCE {
  path            [8]  OCTET STRING,
  keyStorePIN     [9]  OCTET STRING,
  privateKeyPIN   [10] OCTET STRING OPTIONAL,
  keyStoreType    [11] OCTET STRING OPTIONAL,
  sourceCertificateAlias [12] OCTET STRING OPTIONAL,
  ... }

KeyStoreDataSequence ::= SEQUENCE {
  keyStoreData     [13] OCTET STRING,
  keyStorePIN      [9]  OCTET STRING,
  privateKeyPIN    [10] OCTET STRING OPTIONAL,
  keyStoreType     [11] OCTET STRING OPTIONAL,
  sourceCertificateAlias [12] OCTET STRING OPTIONAL,
  ... }

CertificateDataSequence ::= SEQUENCE {
  certificateChain  [14] SEQUENCE SIZE (1..MAX) OF OCTET STRING,
  privateKey        [15] OCTET STRING OPTIONAL,
  ... }
```
* @see ReplaceListenerCertificateExtendedResult
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceListenerCertificateExtendedRequest.java

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 */

/**
 * This class defines a Directory Server task that can be used to safely remove
 * an attribute type from the server schema. It will make sure that the attribute type is not in use in the server before removing it.
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The properties that are available for use with this type of task include:

- The name or OID of the attribute type to remove from the server schema.

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*/
/**
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about the result
 * of a search operation processed by the Directory Server.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
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 */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/SearchResultAccessLogMessage.java

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This class provides a collect support data log capture window implementation that indicates that the tool should use its default logic when determining which log content to include in the support data archive when processing a CollectSupportDataExtendedRequest.

<BR>

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@see CollectSupportDataExtendedRequest

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 */
This class defines a monitor entry that provides general information about an LDAP external server used by the Directory Proxy Server. 

<BR>

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{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

</BLOCKQUOTE>

Information that it may make available includes:

<UL>
  <LI>The address, port, and security mechanism used to communicate with the server.</LI>
  <LI>The DN of the configuration entry for the load-balancing algorithm that
* is using the LDAP external server object.</LI>
* <LI>Information about the health of the LDAP external server.</LI>
* <LI>The number of attempted, successful, and failed operations processed
* using the LDAP external server.</LI>
* </UL>
* The server should present an LDAP external server monitor entry for each
* server used by each load-balancing algorithm. These entries can be retrieved
* using the {@link MonitorManager#getLDAPExternalServerMonitorEntries} method.
* These entries provide specific methods for accessing this information.
* Alternately, the information may be accessed using the generic API. See the
* {@link MonitorManager} class documentation for an example that demonstrates
* the use of the generic API for accessing monitor data.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
* jar/com/unboundid/ldap/sdk/unboundidds/monitors/LDAPExternalServerMonitorEntry.java
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*/
/**
 * This class provides a thread that will be registered as a JVM shutdown hook
 * for any command-line tool for which invocation logging is to be performed.
 * If the tool is interrupted by a JVM shutdown (for example, if the JVM
 * receives a kill signal, if the user presses Control+C, or the tool calls
 * System.exit) before it can complete naturally, then this shutdown hook thread
 * will be run to try to ensure that the tool invocation log includes a record
 * of the abnormal shutdown.
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
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 * </B>*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tools/ToolInvocationLogShutdownHook.java
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/**
* This class provides an implementation of a Directory Server control that may
* be used to indicate that the associated operation is used for performing some
* administrative operation within the server rather than one that was requested
* by a "normal" client. The server can use this indication to treat the
* operation differently (e.g., exclude it from the processing time histogram,
* or to include additional information about the purpose of the operation in
* the access log).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* This request control has an OID of 1.3.6.1.4.1.30221.2.5.11 and a criticality
* of false. It may optionally have a value that is simply the bytes that
* comprise the message to include in the control.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/AdministrativeOperationRequestControl.java
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*/
This class provides an implementation of a join rule as used by the LDAP join request control. See the class-level documentation for the "@link JoinRequestControl" class for additional information and an example demonstrating its use.

*NOTE:* This class, and other classes within the "@code com.unboundid.ldap.sdk.unboundidds" package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.
* <PRE>
* JoinRule ::= CHOICE {
*   and [0] SET (1 .. MAX) of JoinRule,
*   or [1] SET (1 .. MAX) of JoinRule,
*   dnJoin [2] AttributeDescription,
*   equalityJoin [3] JoinRuleAssertion,
*   containsJoin [4] JoinRuleAssertion,
*   reverseDNJoin [5] AttributeDescription,
*   ... }
*
* JoinRuleAssertion ::= SEQUENCE {
*   sourceAttribute AttributeDescription,
*   targetAttribute AttributeDescription,
*   matchAll BOOLEAN DEFAULT FALSE }
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/JoinRule.java

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* /
/**
 * This class provides a response control that holds information about the
 * soft-deleted entry that results from a soft delete request, and may also be
 * included in a search result entry which represents a soft-deleted entry. The
 * value of this control will be the DN of the soft-deleted entry.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   [@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
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 * </BLOCKQUOTE>
 * <BR>
 * This control has an OID of 1.3.6.1.4.1.30221.2.5.21, a criticality of false,
 * and a value that is simply the string representation of the new DN for the
 * soft-deleted entry.
 * <BR><BR>
 * See the documentation for the [ @link SoftDeleteRequestControl ] class for an
 * example demonstrating the use of this control.
 *
 * @see SoftDeleteRequestControl
 */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/SoftDeleteResponseControl.java
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/*
This class defines the superclass for extended results that may be returned in response to the replace certificate extended requests, including

* [ReplaceListenerCertificateExtendedRequest],
* [ReplaceInterServerCertificateExtendedRequest],
* [PurgeRetiredListenerCertificatesExtendedRequest], and
* [PurgeRetiredInterServerCertificatesExtendedRequest].

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</BR>
* The extended result may have an OID that matches that of the associated
* extended result, and it may have a value with the following encoding:
* <PRE>
* ReplaceCertificateResponseValue ::= SEQUENCE {
*   toolOutput     [16] OCTET STRING OPTIONAL,
*    ... }
* </PRE>
* <BR><BR>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceCertificateExtendedResult.java

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This class provides a mechanism for reading messages from a Directory Server error log.

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This class defines a monitor entry that provides information about the disk space usage of the Directory Server.

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The server should present at most one disk space usage monitor entry. It can be retrieved using the DiskSpaceUsageMonitorEntry method. The DiskSpaceUsageMonitorEntry#getDiskSpaceInfo method may be used to retrieve information about the components which may consume significant amounts of disk space, and the DiskSpaceUsageMonitorEntry#getCurrentState method may be used to obtain the current state of the server. Alternately, this information may be accessed using the generic API. See the MonitorManager class documentation for an example that demonstrates the use of the generic API for accessing monitor data.

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ladpsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/DiskSpaceUsageMonitorEntry.java

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This class provides a data structure that holds information about the result of attempting validation with a proposed password against a password quality requirement.

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If it appears in an LDAP protocol element (e.g., in a password validation details response control), then the password quality validation result object should have the following ASN.1 encoding:
* passwordRequirement PasswordQualityRequirement,
* requirementSatisfied BOOLEAN,
* additionalInfo [0] OCTET STRING OPTIONAL }
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordQualityRequirementValidationResult.java
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*/
/**
* This class provides a search result listener that will be used in conjunction
with the \{@link LDAPModify\} tool to apply a modification to entries matching a given search filter.

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Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/LDAPMessages.java

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This class defines an indicator gauge monitor entry, which obtains its information from a non-numeric value in a monitor entry.

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Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/IndicatorGaugeMonitorEntry.java

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 */
/**
 * This class defines a set of properties that may be used when creating a
 * {@link RemoveAttributeTypeTask}.
 * <BR>
 * <BLOCKQUOTE>
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 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tasks/RemoveAttributeTypeTaskProperties.java
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 */
/**
 * This class provides an implementation of an extended request that can be used
 * to retrieve a list of all available versions of the configuration within a
 * server. This may include not only the currently-active configuration, but
 * also former configurations that have been archived, and the baseline
 * configuration for the current server version.
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
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 */
<BR>
*<BLOCKQUOTE>
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* interoperable way with other types of LDAP servers.
</BLOCKQUOTE>
*<BR>
* The OID for this extended request is 1.3.6.1.4.1.30221.2.6.26. It does not
* have a value.
*<BR><BR>
*<H2>Example</H2>
*<PRE>
* // Get a list of the available configurations from the server.
* ListConfigurationsExtendedResult listConfigsResult =
*   (ListConfigurationsExtendedResult)
*   connection.processExtendedOperation( 
*       new ListConfigurationsExtendedRequest());
* String archivedConfigFileName =
*   listConfigsResult.getArchivedFileNames().get(0);
*/
*/
* // Retrieve the first archived configuration from the list configurations
* // result.
* GetConfigurationExtendedResult getConfigResult =
*     (GetConfigurationExtendedResult)
*     connection.processExtendedOperation(GetConfigurationExtendedRequest.
*     createGetArchivedConfigurationRequest(archivedConfigFileName));
* InputStream fileDataStream = getConfigResult.getFileDataInputStream();
* // Read data from the file.
* fileDataStream.close();
* </PRE>
*
* @see  GetConfigurationExtendedRequest
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ListConfigurationsExtendedRequest.java
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*/
/**
* This class defines a set of properties that may be used when creating a  
* {@link RemoveObjectClassTask}.  
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the  
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* </BLOCKQUOTE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/tasks/RemoveObjectClassTaskProperties.java
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*/
/*
This class provides a request control that can be used by the client to identify the purpose of the associated operation. It can be used in conjunction with any kind of operation, and may be used to provide information about the reason for that operation, as well as about the client application used to generate the request. This may be very useful for debugging and auditing purposes.

```
OperationPurposeRequest ::= SEQUENCE {
   applicationName     [0] OCTET STRING OPTIONAL,
   applicationVersion  [1] OCTET STRING OPTIONAL,
   codeLocation        [2] OCTET STRING OPTIONAL,
   requestPurpose      [3] OCTET STRING OPTIONAL
   ... }
```

At least one of the elements in the value sequence must be present.

```
Example
```

The following example demonstrates a sample authentication consisting of a search to find a user followed by a bind to verify that user's password.

```
* Both the search and bind requests will include operation purpose controls
* with information about the reason for the request. Note that for the sake
* of brevity and clarity, error handling has been omitted from this example.
* <PRE>
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
* SearchScope.SUB, Filter.createEqualityFilter("uid", uidValue),
* "1.1");
* searchRequest.addControl(new OperationPurposeRequestControl(appName,
* appVersion, 0, "Retrieve the entry for a user with a given uid");
* Entry userEntry = connection.searchForEntry(searchRequest);
* 
* SimpleBindRequest bindRequest = new SimpleBindRequest(userEntry.getDN(),
* password, new OperationPurposeRequestControl(appName, appVersion, 0,
* "Bind as a user to verify the provided credentials.");
* BindResult bindResult = connection.bind(bindRequest);
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/OperationPurposeRequestControl.java
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This class provides a data structure that holds information about a log message that may appear in the Directory Server access log about an extended request that was forwarded to a backend server but did not complete successfully.

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*/
/**
* This class provides an implementation of the get subtree accessibility
* extended request, which may be used to request information about all subtree
* accessibility restrictions currently defined in the server, including for
* subtrees that are hidden or read-only.  Subtree accessibility may be altered
* using the [@link GetSubtreeAccessibilityExtendedRequest].
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.1.6.20 and does not
* have a value.
*
* @see  GetSubtreeAccessibilityExtendedResult
*/

Found in path(s):
  * /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetSubtreeAccessibilityExtendedRequest.java
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* 
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a the
* beginning of an entry rebalancing operation.
* 
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* 
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a the
* beginning of an entry rebalancing operation.
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 */

/**
 * This class provides an implementation of an intermediate response that can
 * provide the client with a portion of the support data archive generated in
 * response to a [ @link CollectSupportDataExtendedRequest ].
 */

<br>
</BLOCKQUOTE>
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The collect support data archive fragment intermediate response has an OID of
1.3.6.1.4.1.30221.2.6.66 and a value with the following encoding:

CollectSupportDataArchiveDataIntermediateResponse ::= SEQUENCE {
  archiveFileName           [0] OCTET STRING,
  totalArchiveSizeBytes     [1] INTEGER,
  moreDataToReturn          [2] BOOLEAN,
  fragmentData              [3] OCTET STRING,
  ... }

@see CollectSupportDataExtendedRequest
@see CollectSupportDataExtendedResult
@see CollectSupportDataOutputIntermediateResponse

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/**
 * This class provides a response control that may be included in the response
 * to a successful bind operation in order to provide information about custom
 * resource limits for the user, including size limit, time limit, idle time
 * limit, lookthrough limit, equivalent authorization user DN, and client
 * connection policy name.
 * <pre>
 * USER_RESOURCE_LIMITS_VALUE ::= SEQUENCE {
 *   sizeLimit                      [0] INTEGER OPTIONAL,
 *   timeLimitSeconds               [1] INTEGER OPTIONAL,
 *   idleTimeLimitSeconds           [2] INTEGER OPTIONAL,
 *   lookthroughLimit               [3] INTEGER OPTIONAL,
 *   equivalentAuthzUserDN          [4] LDAPDN OPTIONAL,
 *   clientConnectionPolicyName     [5] OCTET STRING OPTIONAL,
 *   groupDNs                       [6] SET OF OCTET STRING OPTIONAL,
 *   privilegeNames                 [7] SET OF OCTET STRING OPTIONAL,
 * }
 * </pre>

* NOTE: This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* interoperable way with other types of LDAP servers.
* </note>
* The criticality for this control should be { @code false }.  It must have a
* value with the following encoding:
* otherAttributes            [8] PartialAttributeList OPTIONAL,
*               ...
* </PRE>
* @see GetUserResourceLimitsRequestControl
*/

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/ /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ladpsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/GetUserResourceLimitsResponseControl.java
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*/
/**
This class provides an implementation of an extended result that may be used to provide the client with the passwords generated by the server in response to a `@link GeneratePasswordExtendedRequest`.

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If the extended request was processed successfully, then this result will have an OID of 1.3.6.1.4.1.30221.2.6.63 and a value with the following encoding:

```
GeneratePasswordResponse ::= SEQUENCE {
    passwordPolicyDN   LDAPDN,
    generatedPasswords SEQUENCE OF SEQUENCE {
        generatedPassword   OCTET STRING,
        validationAttempted BOOLEAN,
        validationErrors   [0] SEQUENCE OF OCTET STRING OPTIONAL,
        ... },
    ... }
```

The elements of the response value are:

- **passwordPolicyDN** -- The DN of the password policy that was used to select the password generator and validators used in the course of creating the passwords.
- **generatedPassword** -- A clear-text password that was generated by the server.
- **validationAttempted** -- Indicates whether the server attempted to perform any validation for the generated password.
- **validationErrors** -- A list of messages describing any problems that were identified while validating the generated password.

Found in path(s):

```
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GeneratePasswordExtendedResult.java
```

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 */

/**
 * This class provides an implementation of a processor that can be used to
 * attempt to retrieve an entry from the source and target servers and identify
 * differences between them.
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
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 * for proprietary functionality or for external specifications that are not
 * considered stable or mature enough to be guaranteed to work in an
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/* *
 * This class provides an implementation of a JSON object filter that can
 * negate the result of a provided filter. If the embedded filter matches a
 * given JSON object, then this negate filter will not match that object. If
 * the embedded filter does not match a JSON object, then this negate filter

The fields that are required to be included in a "negate" filter are:

- **@code negateFilter** -- The JSON object filter whose match result should be negated.

The following is an example of a "negate" filter that will match any JSON object that does not have a top-level field named "userType" with a value of "employee":

```json
{ "filterType" : "negate",
  "negateFilter" : {
    "filterType" : "equals",
    "field" : "userType",
    "value" : "employee"  
  } }
```

The above filter can be created with the code:

```java
NegateJSONObjectFilter filter = new NegateJSONObjectFilter(new EqualsJSONObjectFilter("userType", "employee"));
```

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/util/ssl/cert/X509CertificateExtension.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/listener/HexPasswordEncoderOutputFormatter.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/util/ssl/cert/CertException.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/util/ssl/cert/EllipticCurvePrivateKey.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/util/ssl/cert/SubjectKeyIdentifierExtension.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/util/ssl/cert/CRLDistributionPointsExtension.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/asn1/ASN1GeneralizedTime.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/asn1/ASN1UTF8String.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/SignatureAlgorithmIdentifier.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/SubjectAlternativeNameExtension.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/PKCS10CertificateSigningRequestVersion.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/listener/SaltedMessageDigestInMemoryPasswordEncoder.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/listener/UnsaltedMessageDigestInMemoryPasswordEncoder.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/BasicConstraintsExtension.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/asn1/ASN1PrintableString.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/GeneralAlternativeNameExtension.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/PKCS8PrivateKeyVersion.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/asn1/ASN1BitString.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/RSAPrivateKeyVersion.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/ExtendedKeyUsageID.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/CRLDistributionPoint.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/listener/Base64PasswordEncoderOutputFormatter.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/DecodedPrivateKey.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/InternalCertHelper.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/X509Certificate.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/ManageCertificatesSecurityManager.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/asn1/ASN1BigInteger.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/JVMDefaultTrustManager.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/AuthorityKeyIdIdentifierExtension.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/cert/IssuerAlternativeNameExtension.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/asn1/ASN1IA5String.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/listener/ClearInMemoryPasswordEncoder.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/listener/InMemoryDirectoryServerPassword.java
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 */

/**
 * This class provides a mechanism for reading messages from a Directory Server access log.
 *<BR>
 *<BLOCKQUOTE>
 *@NOTE:@ This class, and other classes within the
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jar/com/unboundid/ldap/sdk/unboundidds/logs/AccessLogReader.java
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*/
/**
* This package provides classes that may be used to parse access and error log
* files generated by the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent

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* 8661 server products.
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  jar/com/unboundid/ldap/sdk/unboundidds/logs/package-info.java
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*/
/**
* This class provides an implementation of an LDAP command-line tool that may
* be used to issue searches to a directory server. Matching entries will be
* output in the LDAP data interchange format (LDIF), to standard output and/or
* to a specified file. This is a much more full-featured tool than the
* { @link com.unboundid.ldap.sdk.examples.LDAPSearch } tool, and includes a
* number of features only intended for use with Ping Identity, UnboundID, and
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPSearch.java

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* limitations under the License.
This class defines a Directory Server task that can be used to import LDIF content into a backend.

The properties that are available for use with this type of task include:

- The paths (on the server system) to the LDIF files containing the data to be imported. At least one LDIF file path must be provided.
- The backend ID for the backend into which the data should be imported. It may be omitted only if at least one include branch is provided.
- A flag that indicates whether to append to the existing data in the backend rather than destroying any existing data before beginning the import.
- A flag that indicates whether to replace entries that already exist when operating in append mode.
- An optional path (on the server system) to a file to which the server should write copies of any entries that are rejected, along with a message explaining why they were rejected.
- A flag that indicates whether to overwrite the reject file rather than append to it if it already exists.
* A flag that indicates whether to clear the entire contents of the
  backend even if it has multiple base DNs but only a subset of them
  were provided in the set of include branches.</LI>
* An optional list of base DNs for branches to include in the
  import.</LI>
* An optional list of base DNs for branches to exclude from the
  import.</LI>
* An optional list of search filters that may be used to determine
  whether an entry should be included in the import.</LI>
* An optional list of search filters that may be used to determine
  whether an entry should be excluded from the import.</LI>
* An optional list of attributes that should be included in the entries
  that are imported.</LI>
* An optional list of attributes that should be excluded from the entries
  that are imported.</LI>
* A flag that indicates whether the LDIF data to import is
  compressed.</LI>
* A flag that indicates whether the LDIF data to import is
  encrypted.</LI>
* A flag that indicates whether to skip schema validation for the data
  that is imported.</LI>
* The path to a file containing a passphrase to use to generate the
  encryption key.</LI>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tasks/ImportTask.java

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*/
/**
* This class provides a data structure that holds information about an audit
* log message that represents a delete operation.
* <BR>
* <BLOCKQUOTE>
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/logs/DeleteAuditLogMessage.java
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This class provides an implementation of a control which may be used to process an add, delete, modify, or modify DN operation in the Directory Server which will not be replicated to other servers. This control is primarily intended for use in manually resolving replication conflicts.

This request control has an OID of 1.3.6.1.4.1.30221.1.5.2 and a criticality of true. It does not have a value.

The following example demonstrates the use of the replication repair request control:

```
<example>
```

* <H2>Example</H2>

```
* ModifyRequest modifyRequest = new ModifyRequest("dc=example,dc=com",
   new Modification(ModificationType.REPLACE, "attrName", "attrValue");
* modifyRequest.addControl(new ReplicationRepairRequestControl());
* LDAPResult modifyResult = connection.modify(modifyRequest);
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/ReplicationRepairRequestControl.java
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*/
/**
This interface provides an API that may be used to handle intermediate response messages returned as part of processing for an `CollectSupportDataExtendedRequest`. It provides specific support for the `CollectSupportDataOutputIntermediateResponse` and `CollectSupportDataArchiveFragmentIntermediateResponse` intermediate response types, but also allows handling other types of intermediate responses as well.

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** @see CollectSupportDataExtendedRequest
** @see CollectSupportDataExtendedResult
** @see CollectSupportDataArchiveFragmentIntermediateResponse
** @see CollectSupportDataOutputIntermediateResponse
*/

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 */
/**
 * Converts this clear-text connection to one that uses SASL integrity and/or
 * confidentiality.
 *
 * @param  saslClient  The SASL client that will be used to secure the
 *                     communication.
 *
 * @throws  LDAPException  If a problem occurs while attempting to convert the
 *                         connection to use a SASL security layer.
 */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/LDAPConnectionInternals.java
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*/
/**
* This enum contains the set of error log severities defined in the Directory
* Server.
* *
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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  jar/com/unboundid/ldap/sdk/unboundidds/logs/ErrorLogSeverity.java
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*/
/**
* This enum defines the set of access log message types.
* </BR>
* <BLOCKQUOTE>
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* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/AccessLogMessageType.java
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/* This class defines a Directory Server task that can be used to trigger the
* rotation of one or more log files.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* considered stable or mature enough to be guaranteed to work in an
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* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
The path to the log file to be rotated. It may be either an absolute path or a path that is relative to the server root. Multiple log files may be targeted by specifying multiple paths, and if no paths are given then the server will rotate all log files.

Find in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/RotateLogTask.java

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/**
This class provides a data structure that holds information about a log message that may appear in the Directory Server access log about an extended request forwarded to a backend server.

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This class provides a tool that may be used to read and summarize the contents of one or more access log files from Ping Identity, UnboundID and Nokia/Alcatel-Lucent 8661 server products.

Information that will be reported includes:

- The total length of time covered by the log files.
- The number of connections established and disconnected, the addresses of the most commonly-connecting clients, and the average rate of connects and disconnects per second.
- The number of operations processed, overall and by operation type, and the average rate of operations per second.
- The average duration for operations processed, overall and by operation type.
- A breakdown of operation processing times into a number of predefined categories, ranging from less than one millisecond to over one minute.
- A breakdown of the most common result codes for each type of operation and their relative frequencies.
- The most common types of extended requests processed and their relative frequencies.
- The number of unindexed search operations processed and the most common types of filters used in unindexed searches.
- A breakdown of the relative frequencies for each type of search scope.
- The most common types of search filters used for search operations and their relative frequencies.

It is designed to work with access log files using either the default log format with separate request and response messages, as well as log files in which the request and response details have been combined on the same
The log files to be processed should be provided as command-line arguments.

The APIs demonstrated by this example include:

- Access log parsing (from the `com.unboundid.ldap.sdk.unboundidds.logs` package)
- Argument parsing (from the `com.unboundid.util.args` package)

Found in path(s):

```
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/examples/SummarizeAccessLog.java
```

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*/
/**
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about a search
 * result entry returned to a client.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/SearchEntryAccessLogMessage.java
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* */

/*
* This class provides a data structure which may be used to indicate the base
* DN to use for a join request. See the class-level documentation for the
* @link JoinRequestControl} class for additional information and an example
* demonstrating its use.
* */

* <BLOCKQUOTE>
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/**
 * This class provides a data structure for holding information about the
 * configuration of backend sets as used by the stream proxy values extended
 * request.
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
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This class provides an implementation of the end administrative session extended request, which indicates that an administrative session created via
with the \{ @link StartAdministrativeSessionExtendedRequest \} should be ended.

This extended request has an OID of 1.3.6.1.4.1.30221.2.6.14, and it does not
take a value.

See the documentation for the
* [@link StartAdministrativeSessionExtendedRequest] for more information about
* creating and using administrative sessions.
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
* jar/com/unboundid/ldap/sdk/unboundidds/extensions/EndAdministrativeSessionExtendedRequest.java

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 */
/**
 * This class provides a collect support data log capture window implementation
 * that indicates that the tool should capture a specified amount of data (in
 * kilobytes) from the beginning and end of each log file when processing a
* { @link CollectSupportDataExtendedRequest }.

* <BR>

* <BLOCKQUOTE>

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* @see  CollectSupportDataExtendedRequest

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* /
/**
* This class provides a data structure that holds the result of processing an
* entry via the `{@link LDAPDiffProcessor}` class.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   `{@code com.unboundid.ldap.sdk.unboundidds}` package structure, are only
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/**
* This class defines a set of properties that may be used when creating a
* {@link CollectSupportDataTask}
*<BR>
*<BLOCKQUOTE>
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*/
/**
* This enum defines the types of configurations that may be obtained using the
* get configuration extended operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* /
/**
* The type used to specify the baseline configuration for the current server
* version.
*
Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetConfigurationType.java
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 */

/**
 * This class defines a data structure for holding information about scheduled
 * tasks as used by the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661
 * Directory Server.  Subclasses will be used to provide additional
 * functionality when dealing with certain types of tasks.
 */

</BLOCKQUOTE>

</B>NOTE:</B>  This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* interoperable way with other types of LDAP servers.
*/

</BLOCKQUOTE>

</BR>
* All types of tasks can include the following information:
*  
*   <UL>
*     <LI>Task ID -- Uniquely identifies the task in the server. It may be
*         omitted when scheduling a new task in order to have a task ID generated
*         for the task.</LI>
*     <LI>Task Class Name -- The fully-qualified name of the [@code Task]
*         subclass that provides the logic for the task. This does not need to
*         be provided when creating a new task from one of the task-specific
*         subclasses.</LI>
*     <LI>Task State -- The current state of the task. See the [@link TaskState]
*         enum for information about the possible states that a task may
*         have.</LI>
*     <LI>Scheduled Start Time -- The earliest time that the task should be
*         eligible to start. It may be omitted when scheduling a new task in
*         order to use the current time.</LI>
*     <LI>Actual Start Time -- The time that server started processing the
*         task.</LI>
*     <LI>Actual End Time -- The time that server completed processing for the
*         task.</LI>
*     <LI>Dependency IDs -- A list of task IDs for tasks that must complete
*         before this task may be considered eligible to start.</LI>
*     <LI>Failed Dependency Action -- Specifies how the server should treat this
*         task if any of the tasks on which it depends failed. See the
*         [@link FailedDependencyAction] enum for the failed dependency action
*         values that may be used.</LI>
*     <LI>Notify on Completion -- A list of e-mail addresses for users that
*         should be notified when the task completes, regardless of whether it
*         was successful.</LI>
*     <LI>Notify On Error -- A list of e-mail addresses for users that should be
*         notified if the task fails.</LI>
*     <LI>Log Messages -- A list of the messages logged by the task while it was
*         running.</LI>
*   </UL>

* Each of these elements can be retrieving using specific methods within this
* class (e.g., the [@link Task#getTaskID] method can be used to retrieve the
* task ID), but task properties (including those specific to the particular
* type to task) may also be accessed using a generic API. For example, the
* [@link Task#getTaskPropertyValues] method retrieves a map that correlates the
* [@link TaskProperty] objects for the task with the values that have been set
* for those properties. See the documentation for the [@link TaskManager]
* class for an example that demonstrates accessing task information using the
* generic API.
*  
* Also note that it is possible to create new tasks using information obtained
* from the generic API, but that is done on a per-class basis. For example, in
* order to create a new [@link BackupTask] instance using the generic API, you
* would use the [@link BackupTask#BackupTask(Map)] constructor, in which the
* provided map contains a mapping between the properties and their values for
that task. The \{ @link Task\#getTaskSpecificProperties \} method may be used to
retrieve a list of the task-specific properties that may be provided when
scheduling a task, and the \{ @link Task\#getCommonTaskProperties \} method may be
used to retrieve a list of properties that can be provided when scheduling
any type of task.
/*

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/tasks/Task.java
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/**
This class implements a data structure which encapsulates the value of an intermediate client request value. It may recursively embed intermediate client request values from downstream clients.

NOTE: This class, and other classes within the `{@code com.unboundid.ldap.sdk.unboundidds}` package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

See the documentation in the `{@link IntermediateClientRequestControl}` class for an example of using the intermediate client request and response controls.

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* `/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/IntermediateClientRequestValue.java`

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*/
/**
* This class provides an implementation of an extended result that may be used
* to provide information about the result of processing for a deliver
* single-use token extended request.  If the token was delivered successfully,
* then this result will include information about the mechanism through which
* the token was delivered.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* If the request was processed successfully, then the extended result will have
* an OID of 1.3.6.1.4.1.30221.2.6.50 and a value with the following encoding:
* <BR>
* <PRE>
*   DeliverSingleUseTokenResult ::= SEQUENCE {
*        deliveryMechanism     OCTET STRING,
*        recipientID           [0] OCTET STRING OPTIONAL,
*        message               [1] OCTET STRING OPTIONAL,
*        ... }
* </PRE>
*<BR>
* @see  DeliverSingleUseTokenExtendedRequest
* @see  ConsumeSingleUseTokenExtendedRequest
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeliverSingleUseTokenExtendedResult.java
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 */

/**
 * This class defines a monitor entry that provides summary information about
 * a replicated data set within the Directory Server.
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 * supported for use against Ping Identity, UnboundID, and
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 * for proprietary functionality or for external specifications that are not
 * considered stable or mature enough to be guaranteed to work in an
 * interoperable way with other types of LDAP servers.
 * </B>NOTE:
 */
* The server will present a replication summary monitor entry for each base DN
* for which replication is enabled, and it will include information about each
* replica and replication server processing changes for that base DN.
* Replication summary monitor entries can be retrieved using the
* [@link MonitorManager#getReplicationSummaryMonitorEntries] method. The
* [@link #getBaseDN] method may be used to retrieve information about the
* replicated base DN, the [@link #getReplicationServers] method may be used to
* retrieve information about the replication servers for that base DN, and the
* [@link #getReplicas] method may be used to retrieve information about the
* replicas for that base DN. Alternately, this information may be accessed
* using the generic API. See the [@link MonitorManager] class documentation
* for an example that demonstrates the use of the generic API for accessing
* monitor data.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/monitors/ReplicationSummaryMonitorEntry.java
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Sets the SASL client for the provided ASN.1 stream reader. This method is intended for use as a helper for processing data that has been encoded some form of SASL integrity or confidentiality, and should not be used for other purposes.

@param asn1StreamReader The ASN.1 stream reader for which to set the SASL client.
@param saslClient The SASL client to set for the ASN.1 stream reader.

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* /
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an add
* request received from a client.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
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jar/com/unboundid/ldap/sdk/unboundidds/logs/AddRequestAccessLogMessage.java
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*/
/**
* This class provides an entry that is to be used as the output generated by an
* [@link com.unboundid.ldif.LDIFReaderEntryTranslator] used by the
* [@link SplitLDIF] tool. It includes a pre-encoded LDIF representation of the
* entry, and may include the sets to which the entry should be written.
* </BLOCKQUOTE>
* <BR>
* </B>NOTE:</B> This class, and other classes within the
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/
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This class provides an implementation of an extended result that can provide information about the requirements that the server will enforce for operations that change or replace a user's password, including adding a new user, a user changing his/her own password, and an administrator resetting another user's password.

<br>

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</blockquote>

<br>

If the get password quality request was processed successfully, then the result will include an OID of 1.3.6.1.4.1.30221.2.6.44 and a value with the
GetPasswordQualityRequirementsResultValue ::= SEQUENCE {
  requirements     SEQUENCE OF PasswordQualityRequirement,
  currentPasswordRequired [0] BOOLEAN OPTIONAL,
  mustChangePassword    [1] BOOLEAN OPTIONAL,
  secondsUntilExpiration [2] INTEGER OPTIONAL,
  ... }

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*/
/**
* This class provides an implementation of a get changelog batch change
* selection criteria value that indicates that the server should not return
* changes which target only the specified attributes. This can be useful for
* ignoring changes to attributes which are changed frequently but not of
* interest to the client. Note that changes returned may include changes to
* these attributes, but only if the change targets other attributes that should
* not be ignored.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* [code com.unboundid.ldap.sdk.unboundidds] package structure, are only
* supported for use against Ping Identity, UnboundID, and
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  jar/com/unboundid/ldap/sdk/unboundidds/extensions/IgnoreAttributesChangeSelectionCriteria.java
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*/
/*
This class provides an implementation of the password policy request control as described in draft-behera-ldap-password-policy. It may be used to request information related to a user's password policy. In the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server, this control may be included with add, bind, compare, modify, and password modify requests.

The corresponding PasswordPolicyResponseControl may include at most one warning from the set of PasswordPolicyWarningType values and at most one error from the set of PasswordPolicyErrorType values. See the documentation for those classes for more information on the information that may be included.

Example

The following example demonstrates the use of the password policy request control in conjunction with a bind operation:

```java
SimpleBindRequest bindRequest = new SimpleBindRequest(
    "uid=john.doe,ou=People,dc=example,dc=com", "password",
    new PasswordPolicyRequestControl());
```
* * BindResult bindResult;
* * try
* * {  
* *   bindResult = connection.bind(bindRequest);
* * }
* * catch (LDAPException le)
* * {  
* *   // The bind failed. There may be a password policy response control to
* *   // help tell us why.
* *   bindResult = new BindResult(le.toLDAPResult());
* * }

* PasswordPolicyResponseControl pwpResponse =
*   PasswordPolicyResponseControl.get(bindResult);
* if (pwpResponse != null)
* {  
*   PasswordPolicyErrorType errorType = pwpResponse.getErrorType();
*   if (errorType != null)
*    {  
*     // There was a password policy-related error.
*     }  
*  }

* PasswordPolicyWarningType warningType = pwpResponse.getWarningType();
* if (warningType != null)
* {  
*   // There was a password policy-related warning.
*   int value = pwpResponse.getWarningValue();
*   switch (warningType)
*    {  
*     case TIME_BEFORE_EXPIRATION:
*      // The warning value is the number of seconds until the user's
*      // password expires.
*     break;
*     case GRACE_LOGINS_REMAINING:
*      // The warning value is the number of grace logins remaining for
*      // the user.
*    }  
*  }
* </PRE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordPolicyRequestControl.java
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 */

/**
 * This class provides a request control that can be included in an add request
 * to indicate that the server should generate a password for the new account.
 * If the add operation is processed successfully, then the generated password
 * will be included in the {@link GeneratePasswordResponseControl} in the add
 * result.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
 *   Nokia/Alcatel-Lucent 8661 server products.  These classes provide support
 *   for proprietary functionality or for external specifications that are not
 */
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* &lt;BR&gt;
* The OID for this control is 1.3.6.1.4.1.30221.2.5.58, the criticality may be
* either { @code true} or { @code false}, and it does not have a value.
* 
* @see GeneratePasswordResponseControl
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/GeneratePasswordRequestControl.java

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This class defines a Directory Server task that can be used to synchronize the encryption settings definitions in one instance with one or more other servers in the topology. This task does not have any task-specific properties.

*B*<BR>
* <CODE>&lt;BLOCKQUOTE&gt;<BR>* &lt;B&gt;NOTE:&lt;/B&gt; This class, and other classes within the &lt;@code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.<BR>* &lt;/BLOCKQUOTE&gt;<BR>*<BR>*<CODE>

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*/
/**
<BR>
* This class provides an implementation of an extended request that can be used
* to send multiple update requests to the server in a single packet, optionally
* processing them as a single atomic unit.
*<BR>
*NOTE: This class, and other classes within the
*{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*supported for use against Ping Identity, UnboundID, and
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*for proprietary functionality or for external specifications that are not
*considered stable or mature enough to be guaranteed to work in an
*interoperable way with other types of LDAP servers.
*</BLOCKQUOTE>
*<BR>
*The OID for this request is 1.3.6.1.4.1.30221.2.6.17, and the value must have
*the following encoding:
*<BR>
*MultiUpdateRequestValue ::= SEQUENCE {
*   errorBehavior ENUMERATED {
*     atomic (0),
*     quitOnError (1),
*     continueOnError (2),
*     ... },
*   requests SEQUENCE OF SEQUENCE {
*     updateOp CHOICE {
*       modifyRequest ModifyRequest,
*       addRequest AddRequest,
*       delRequest DelRequest,
*       modDNRequest ModifyDNRequest,
*       extendedReq ExtendedRequest,
*       ... },
*     controls [0] Controls OPTIONAL,
*     ... },
*   ... }
*</PRE>
The following example demonstrates the use of the multi-update extended request to create a new user entry and modify an existing group entry to add the new user as a member:

```java
MultiUpdateExtendedRequest multiUpdateRequest =
    new MultiUpdateExtendedRequest(
        MultiUpdateErrorBehavior.ABORT_ON_ERROR,
        new AddRequest(
            "dn: uid=new.user,ou=People,dc=example,dc=com",
            "objectClass: top",
            "objectClass: person",
            "objectClass: organizationalPerson",
            "objectClass: inetOrgPerson",
            "uid: new.user",
            "givenName: New",
            "sn: User",
            "cn: New User"),
        new ModifyRequest(
            "dn: cn=Test Group,ou=Groups,dc=example,dc=com",
            "changetype: modify",
            "add: member",
            "member: uid=new.user,ou=People,dc=example,dc=com"));

MultiUpdateExtendedResult multiUpdateResult =
    (MultiUpdateExtendedResult)
    connection.processExtendedOperation(multiUpdateRequest);
if (multiUpdateResult.getResultCode() == ResultCode.SUCCESS) {
    // The server successfully processed the multi-update request, although
    // this does not necessarily mean that any or all of the changes
    // contained in it were successful. For that, we should look at the
    // changes applied and/or results element of the response.
    switch (multiUpdateResult.getChangesApplied())
    {
        case NONE:
            // There were no changes applied. Based on the configuration of the
            // request, this means that the attempt to create the user failed
            // and there was no subsequent attempt to add that user to a group.
            break;
        case ALL:
            // Both parts of the update succeeded. The user was created and
            // successfully added to a group.
            break;
        case PARTIAL:
            // At least one update succeeded, and at least one failed. Based on
            // the configuration of the request, this means that the user was
```
// successfully created but not added to the target group.
*   break;
* }
* }
* else
* { 
*   // The server encountered a failure while attempting to parse or process
*   // the multi-update operation itself and did not attempt to process any
*   // of the changes contained in the request.
* }
* </PRE>
*
* @see MultiUpdateErrorBehavior
* @see MultiUpdateExtendedResult
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/MultiUpdateExtendedRequest.java

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*/
/**
* This class provides a command-line tool that may be used to invoke the
* collect-support-data utility in the Ping Identity Directory Server and
* related server products.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Note that this is a client-side wrapper for the application. While it may
* be used to invoke the tool against a remote server using the
* {@link CollectSupportDataExtendedRequest}, it does not include direct support
* for invoking the tool against a local instance. That will be accomplished
* indirectly by invoking the server-side version of the tool via reflection.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tools/CollectSupportData.java
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/**
* This class provides an implementation of the unsolicited cancel response
* control, which may be returned by the Directory Server if an operation is
* canceled by the server without a cancel or abandon request from the client.
* This control does not have a value.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
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Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/UnsolicitedCancelResponseControl.java
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*/
This class defines a Directory Server task that can be used to cause the
server to leave lockdown mode and resume normal operation. Note that because
of the nature of lockdown mode, it this task may only be requested by a user
with the lockdown-mode privilege. Alternately, the server may be restarted
and it will not be placed in lockdown mode at startup unless a significant
problem is encountered in which there may be a risk of unauthorized access to
data.

<BR>
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  <B>NOTE:</B> This class, and other classes within the
  {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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The leave lockdown mode task does not have any task-specific properties. See the `EnterLockdownModeTask` class for more information about lockdown mode and a task that may be used to force the server to enter this state.

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 */
This class defines a Directory Server task that can be used to request that
the server should dynamically reload all key and trust manager providers
associated with all HTTP connection handlers configured with support for
HTTPS. Note that this may cause problems with a client’s ability to resume a
TLS session that was created before the reload.

This class, and other classes within the
{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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interoperable way with other types of LDAP servers.

The reload HTTP connection handler certificates task does not have any
task-specific properties.

/*

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server audit log.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/AuditLogMessage.java
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}/**

* <BLOCKQUOTE>
* <B>NOTE:</B> The use of interactive transactions is strongly discouraged
* because it can create conditions which are prone to deadlocks between
* operations that may significantly affect performance and will result in the
* cancellation of one or both operations.  It is strongly recommended that
* standard LDAP transactions (which may be started using a
* {@link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest})
* or a {@link MultiUpdateExtendedRequest} be used instead. Although they
* cannot include arbitrary read operations, LDAP transactions and
* multi-update operations may be used in conjunction with the
* {@link AssertionRequestControl},
* {@link PreReadRequestControl}, and
* {@link PostReadRequestControl} to
* incorporate some read capability into a transaction, and in conjunction
* with the modification type to increment integer values without the need to know the
* precise value before or after the operation (although the pre-read and/or
* post-read controls may be used to determine that).
* </BLOCKQUOTE>

* This class provides an implementation of the interactive transaction
* specification request control, which may be used to indicate that the
* associated operation is part of an interactive transaction. It may be used
* in conjunction with add, compare, delete, modify, modify DN, and search
* requests, as well as some types of extended requests. The transaction should
* be created with the start interactive transaction extended request, and the
* end interactive transaction extended request may be used to commit or abort
* the associated transaction.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The elements of the interactive transaction specification request control may
* include:
* <UL>
* <LI><CODE>txnID</CODE> -- The transaction ID for the transaction, which was
* obtained from a previous
* [{@code StartInteractiveTransactionExtendedResult}].</LI>
* <LI><CODE>abortOnFailure</CODE> -- Indicates whether the transaction should
* be aborted if the request associated with this control does not
* complete successfully.</LI>
* <LI><CODE>writeLock</CODE> -- Indicates whether the target entry may be
* altered by this or a subsequent operation which is part of the
* transaction. It should generally be {@code false} only for read
* operations in which it is known that the target entry will not be
* altered by a subsequent operation.</LI>
* </UL>
* See the documentation for the
* [@code StartInteractiveTransactionExtendedRequest] class for an example of
* processing an interactive transaction.
* *
* @deprecated The use of interactive transactions is strongly discouraged
* because it can create conditions which are prone to deadlocks
* between operations that may significantly affect performance and
* will result in the cancellation of one or both operations.
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/InteractiveTransactionSpecificationRequestControl.java
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This class provides a utility that may be used to request that the Directory Server deliver a single-use password reset token to a user through some out-of-band mechanism.

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{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.
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 */

/**
 * This class provides a tool that can be used to compare the contents of two
 * LDAPv3 servers and report the differences in an LDIF file that can be used to
 * update the source server to match the target. It should work with any pair
 * of LDAPv3 servers, including servers of different types.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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This tool can be used to determine whether two LDAP replicas are in sync. It can also account for replication delay by checking differing entries multiple times.

At a minimum, the user must provide information needed to connect and authenticate to the two servers to compare, as well as the base DN below which to search (note that the empty base DN is not supported). The user can optionally also specify a filter used to identify which entries should be compared.

This tool tries to compare the contents of both servers as quickly as possible while also maintaining a low memory overhead and eliminating false positives that result from entries that are temporarily out of sync as a result of replication latencies. It does this using the following approach:

- Retrieve the DNs from each server in parallel. For servers that advertise support for the \{@link StreamDirectoryValuesExtendedRequest\}, then that operation will be used to retrieve the DNs. Otherwise, a search will be used with the configured base DN, scope, and filter to retrieve all matching entries (without any attributes).

For up to a configurable number of passes:

- Use a thread pool to iterate through all of the identified entry DNs, fetching and comparing each entry from both servers. By default, multiple threads will be used to perform the comparison as fast as possible, but this can be configured as needed to adjust the performance impact on the directory servers.

- If the version of the entry retrieved from each server is the same, then it is considered in sync and will not be compared again. If the entry differs between the source and target servers, and if there are no more passes to complete, then the differences will be computed and written in LDIF form to an output file.

- If any differing entries were identified, and if there are more passes remaining, then the tool will wait for a specified length of time before re-retrieving and re-comparing each of the entries that differed in the last pass.
* Note that even though the tool operates in parallel, it ensures that the
* differences are written to the output file in an appropriate order to ensure
* that they can be replayed. The tool keeps the adds, modifies, and deletes
* separate during processing and then joins them at the end in an appropriate
* order (with deletes in reverse order to ensure that children are removed
* before parents, followed by modifies, and finally adds). Intermediate files
* are used during processing to hold the add and modify records to minimize
* memory consumption.
* *<BR><BR>* Note that the accounts used to run this tool must be sufficiently privileged
* to perform the necessary processing, including being able to access all of
* the appropriate entries (and all relevant attributes in those entries) in
* each server.
* */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
* jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPDiff.java

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a compare
* request received from a client.
* <BR>
* <BLOCKQUOTE>
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/logs/CompareRequestAccessLogMessage.java
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This class provides an implementation of a get changelog batch change selection criteria value that indicates that the server should only return changes which target one or more of the specified attributes. The changes may target other attributes as well, but at least one of the associated attributes must be included in the change.

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This class defines a monitor entry that provides information about the types of LDAP operations processed through an LDAP connection handler.

Information available through this monitor entry includes:

- The total number of requests for each type of operation received by the connection handler.
- The total number of responses of each type of operation returned by the connection handler.
The LDAP statistics monitor entries provided by the server can be retrieved using the `MonitorManager.getLDAPStatisticsMonitorEntries` method. These entries provide specific methods for accessing information about the LDAP connection handler (e.g., the `LDAPStatisticsMonitorEntry.getAbandonRequests` method can be used to retrieve the number of abandoned requests received). Alternately, this information may be accessed using the generic API. See the `MonitorManager` class documentation for an example that demonstrates the use of the generic API for accessing monitor data.

Found in path(s):

```
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds-monitors/LDAPStatisticsMonitorEntry.java
```

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*/
/*
* The int value for the CONFIDENTIALITY_REQUIRED result code.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/migrate/ldajdk/LDAPException.java
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This class provides an implementation for a request control that can be
included in an add, modify, or password modify request. Its presence in one
of those requests will indicate that the server should provide a response
control with information about the password quality requirements that are in
effect for the operation and information about whether the password included
in the request satisfies each of those requirements.

This request control has an OID of 1.3.6.1.4.1.30221.2.5.40, and it is
recommended that the criticality be [@code false]. It does not have a value.

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordValidationDetailsRequestControl.java
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*/
/**
* This class provides an implementation of the stream proxy values intermediate
* response, which may be used to provide a partial or complete list of the
* values for a specified attribute, or DNs of entries contained in a specified
* portion of the server DIT.
* <BR>
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* [@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
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* </BLOCKQUOTE>
* <BR>
* This intermediate response has an OID of "1.3.6.1.4.1.30221.2.6.9" and the
* value is encoded as follows:
* <PRE>
* StreamProxyValuesIntermediateResponse ::= SEQUENCE {


* attributeName [0] LDAPString OPTIONAL,
* result [1] ENUMERATED {
*   allValuesReturned (0),
*   moreValuesToReturn (1),
*   attributeNotIndexed (2),
*   processingError (3),
*   ... },
* diagnosticMessage [2] OCTET STRING OPTIONAL,
* values [4] SET OF BackendSetValue OPTIONAL,
* ... }
*
* BackendSetValue ::= SEQUENCE {
*   backendSetID OCTET STRING,
*   value OCTET STRING }
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StreamProxyValuesIntermediateResponse.java
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* as published by the Free Software Foundation.
This class provides a data structure that encapsulates information about a
result code included in the result code monitor entry.

/*
*BLOCQUOTE>
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/persist/package-info.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/persist/LDAPPersistException.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/OutputFormat.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/migrate/ldapjdk/LDAPModificationSet.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/persist/ObjectSearchListener.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/persist/LDAPDNField.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/migrate/jndi/package-info.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/migrate/Idapjdk/LDAPDNField.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/migrate/Idapjdk/LDAPDN.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/migrate/Idapjdk/LDAPInterruptedException.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/migrate/Idapjdk/SearchListenerBridge.java
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*/
/**
* This class provides an implementation of an LDIF reader entry translator that
* can be used to determine the set into which an entry should be placed by
* selecting the set that currently has the fewest entries.
* <BR>
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 * This enum defines the set of allowed timestamp formats for use in conjunction
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 */

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/*/  
/* This class acts as a superclass for objects that may be used to indicate how
 * the server should handle updating trust information for a new listener
certificate chain.
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* This class implements an extended result that may be returned in response to
* a { @link ReplaceListenerCertificateExtendedRequest}. See the
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* <BR>
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/Ldap/sdk/unboundidds/extensions/ReplaceListenerCertificateExtendedResult.java
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*/
/**
* This enum defines the set of count types that may be used in a matching entry count response control.
* <BR>
* <BLOCKQUOTE>
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*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/MatchingEntryCountType.java
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/**
 * This class provides an implementation of a control that may be included in a
 * search request to override certain default limits that would normally be in
 * place for the operation. The override behavior is specified using one or
 * more name-value pairs, with property names being case sensitive.
 * <BR>
 * <BLOCKQUOTE>
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 * </BLOCKQUOTE>
 * <BR>
 * The control has an OID of 1.3.6.1.4.1.30221.2.5.56, a criticality of either
 * [@code true} or [@code false], and a value with the provided encoding:
 *
 * that contains a mapping of one or
 * more case-sensitive property-value pairs. Property names will be treated in
 * a case-sensitive manner.
 * the following encoding:
 * <PRE>
 * OverrideSearchLimitsRequestValue ::= SEQUENCE OF SEQUENCE {
 *    propertyName      OCTET STRING,
 *    propertyValue     OCTET STRING }
 * </PRE>
 */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/OverrideSearchLimitsRequestControl.java
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 */

/**
 * This class provides a data structure that contains information about a
 * replication server contained in a replication summary monitor entry.
 *<BR>
 *<B>NOTE:</B>  This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/ReplicationSummaryReplicationServer.java
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/**
* This class defines the API that should be implemented by classes which may
* represent a way to identify the start of a batch of changes to retrieve using
* the [ @link GetChangelogBatchExtendedRequest ].
* <BR>
* <BLOCKQUOTE>
<B>NOTE:</B> This class, and other classes within the
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/**
* This class provides a {link ReplaceCertificateKeyStoreContent} implementation to indicate that the server should use a certificate key store file contained on the server filesystem.
* <BR>
* <BLOCKQUOTE>
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*/
/**
* This class provides an implementation of an LDAP control that can be included
* in add, bind, modify, modify DN, and certain extended responses to provide
* information about the result of replication assurance processing for that
* operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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* <BR>
* The OID for this control is 1.3.6.1.4.1.30221.2.5.29. It will have a
* criticality of FALSE, and will have a value with the following encoding:
* <PRE>
*   AssuredReplicationResponse ::= SEQUENCE {
*      localLevel                   [0] LocalLevel OPTIONAL,  
*      localAssuranceSatisfied      [1] BOOLEAN,             
*      localAssuranceMessage       [2] OCTET STRING OPTIONAL,
*      remoteLevel                  [3] RemoteLevel OPTIONAL,  
*      remoteAssuranceSatisfied     [4] BOOLEAN,             
*      remoteAssuranceMessage       [5] OCTET STRING OPTIONAL,
*      csn                          [6] OCTET STRING OPTIONAL,  
*      serverResults                [7] SEQUENCE OF ServerResult OPTIONAL,  
*      ... }                                                
*   ServerResult ::= SEQUENCE {
*      resultCode              [0] ENUMERATED {
*         complete           (0),
*         timeout            (1),
*         conflict           (2),
*         serverShutdown     (3),
*         unavailable        (4),
*         duplicate         (5),
* ... },
* replicationServerID [1] INTEGER OPTIONAL,
* replicaID [2] INTEGER OPTIONAL,
* ... }
* </PRE>
* 
* @see AssuredReplicationRequestControl
* 
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/AssuredReplicationResponseControl.java
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This class provides a data structure for representing search filters in a generic way.

This includes:

- Using a consistent order for AND and OR components.
- Converting all attribute names to lowercase.
- Replacing the assertion value with a "?" character for equality, greater-or-equal, less-or-equal, approximate match, and extensible match filters.
- Replacing all subInitial, subAny, and subFinal elements with "?" characters in substring filters.

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/**
* This enum defines the set of allowed accessibility states that may be used
* with the {@link SetSubtreeAccessibilityExtendedRequest}.
* <BR>
* <BLOCKQUOTE>
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*/
/**
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about the result
 * of a modify DN operation processed by the Directory Server.
 * 
 * <BR>
 * <B>NOTE:</B>  This class, and other classes within the
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/*
This class provides an API that may be implemented by classes that format
and output the results for LDAP-related tools.

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 */

/**
 * This class provides a helper class that may be used to ensure that all of the
 * "out-of-the-box" UnboundID-specific response controls supported by this SDK
 * are registered so that they can be properly instantiated when received in a
 * response from the directory server.
 * <BR>
 * <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
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*
This class defines a monitor entry that provides information about the processing times of operations that are performed in the server in the context of a single application. It derives most of its functionality from its parent class, \{@link ProcessingTimeHistogramMonitorEntry\}. The only additional information that is provided is the name of the application to which the monitor entry applies.

* <BR>

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* <BR>

* The server can present zero or more per application processing time histogram monitor entries. They can be retrieved using the \{@link MonitorManager#getPerApplicationProcessingTimeHistogramMonitorEntries\} method. This entry provides specific methods for accessing information about processing times per bucket (e.g., the Alternately, this information may be accessed using the generic API. See the \{@link MonitorManager\} class documentation for an example that demonstrates the use of the generic API for accessing monitor data.

*/

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*/
/**
* This class provides a mechanism for ensuring that entries targeted by the
* manage-account tool are processed properly, whether by the thread providing
* the DN of the entry to update, or by a separate worker thread.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccountProcessor.java
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*/
/*
This class provides a response control that may be used to provide the
client with information about transaction-related information over the
course of the associated operation.

This control has an OID of 1.3.6.1.4.1.30221.2.5.39. It should have a
criticality of {@code false}, and a value with the following encoding:
* TransactionSettingsResponseValue ::= SEQUENCE {
*   numLockConflicts        [0] INTEGER
*   backendLockAcquired     [1] BOOLEAN,
*   ...  }
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
*   jar/com/unboundid/ldap/sdk/unboundidds/controls/TransactionSettingsResponseControl.java

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*/
/**
* This package contains implementations for a number of LDAP extended
* operations which are specific to the Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 Directory Server products. In some cases, they
* may be based on standard extended operations which have not yet reached a
* sufficient stability level to make them available for general use against any
* kind of server, while in other cases they may be defined specifically for use
* with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory
* Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> The classes within this package, and elsewhere within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
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*/

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  jar/com/unboundid/ldap/sdk/unboundidds/extensions/package-info.java
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* /
/*
* This class provides a data structure that may be used to hold a reusable
* secret key for use in conjunction with [ @link AES256EncodedPassword]
* objects. Reusing a secret key avoids the (potentially significant) cost of
* generating it for each encryption and decryption operation.
* *
* <BLOCKQUOTE>
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* { @code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/AES256EncodedPasswordSecretKey.java
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*/
/**
* This class defines a Directory Server task that can be used to invoke the
* collect-support-data tool to capture a variety of information that may help
* monitor the state of the server or diagnose potential problems.
* <BR>
* <B>NOTE:</B>  This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* 
* The properties that are available for use with this type of task include:
* 
* <UL>
*   <LI>The path (on the server filesystem) to which the support data archive
*       should be written. If this is not provided, then the server will
*       determine an appropriate output file to use. If this is provided and
*       refers to a file that exists, that file will be overwritten. If this
*       is provided and refers to a directory that exists, then a file will
*       be created in that directory with a server-generated name. If this
*       is provided and refers to a file that does not exist, then its parent
*       directory must exist, and a new file will be created with the specified
*       path. </LI>
*   <LI>The path (on the server filesystem) to a file containing the passphrase

* to use to encrypt the contents of the support data archive. If this is
* not provided, then the support data archive will not be encrypted.</LI>
* <LI>A flag that indicates whether to include data that may be expensive to
* capture in the support data archive. This information will not be
* included by default.</LI>
* <LI>A flag that indicates whether to include a replication state dump
* (which may be several megabytes in size) in the support data
* archive. This information will not be included by default.</LI>
* <LI>A flag that indicates whether to include binary files in the support
* data archive. Binary files will not be included by default.</LI>
* <LI>A flag that indicates whether to include source code (if available) to
* any third-party extensions installed in the server. Extension source
* code will not be included by default.</LI>
* <LI>The data security level to use when redacting data to include in the
* support data archive. If this is not specified, the server will
* select an appropriate security level.</LI>
* <LI>A flag that indicates whether to capture items in sequential mode
* (which will use less memory, but at the expense of taking longer to
* complete) rather than in parallel. Support data will be captured in
* parallel by default.</LI>
* <LI>The number and duration between intervals for use when collecting
* output of tools (like vmstat, iostat, mpstat, etc.) that use
* sampling over time. If this is not provided, the server will use a
* default count and interval.</LI>
* <LI>The number of times to invoke the jstack utility to obtain a stack
* trace of threads running in the JVM. If this is not provided, the
* server will use a default count.</LI>
* <LI>The duration (the length of time before the time the task is invoked)
* for log messages to be included in the support data archive. If this
* is not provided, the server will automatically select the amount of
* log content to include.</LI>
* <LI>The amount of data in kilobytes to capture from the beginning or end of
* each log file. If this is not provided, the server will automatically
* select the amount of log content to include.</LI>
* <LI>An optional comment to include in the support data archive.</LI>
* </UL>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/CollectSupportDataTask.java
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*/
/**
 * This class provides a thread that may be used to parallelize the process of
 * searching for entries on which to invoke password policy state operations.
 * 
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 */
/**
 * This class defines a data structure with information about a subtree with
 * restricted access, as may be included in a
 * \{@link GetSubtreeAccessibilityExtendedResult\}.
 * <BR>
 * <BLOCKQUOTE>
 * <B>NOTE:</B> This class, and other classes within the
 * \{@code com.unboundid.ldap.sdk.unboundidds\} package structure, are only
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  jar/com/unboundid/ldap/sdk/unboundidds/extensions/SubtreeAccessibilityRestriction.java
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*/
/**
* This class provides a data structure that describes a requirement that
* passwords must satisfy in order to be accepted by the server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* A password quality requirement will always include a description, which
* should be a string that provides a user-friendly description of the
* constraints that a proposed password must satisfy in order to meet this
* requirement and be accepted by the server.  It may optionally include
* additional information that could allow an application to attempt some kind
* of pre-validation in order to determine whether a proposed password might
* fall outside the constraints associated with this requirement and would
* therefore be rejected by the server.  This could allow a client to provide
* better performance (by not having to submit a password to the server and wait
* for the response in order to detect certain kinds of problems) and a better
* user experience (for example, by interactively indicating whether the value
* is acceptable as the user is entering it).
* <BR><BR>
* If a password quality requirement object does provide client-side validation
* data, then it will include at least a validation type (which indicates the
* nature of the validation that will be performed), and an optional set of
* properties that provide additional information about the specific nature of
* the validation.  For example, if the server is configured with a length-based
*
password validator that requires passwords to be between eight and 20
characters, then the requirement may have a validation type of "length" and
two validation properties: "minimum-length" with a value of "8" and
"maximum-length" with a value of "20". An application that supports this
type of client-side validation could prevent a user from supplying a password
that is too short or too long without the need to communicate with the
server.

Note that not all types of password requirements will support client-side
validation. For example, the server may be configured to use a dictionary
with some of the most commonly-used passwords in an attempt to prevent
users from selecting passwords that may be easily guessed, or the server
may be configured with a password history to prevent users from selecting a
password that they had already used. In these kinds of cases, the
application will not have access to the information necessary to make the
determination using client-side logic. The server is the ultimate authority
as to whether a proposed password will be accepted, and even applications
should be prepared to handle the case in which a password is rejected by the
server even if client-side validation does not indicate that there are any
problems with the password. There may also be cases in which the reason that
an attempt to set a password fails for a reason that is not related to the
quality of the provided password.

However, even in cases where an application may not be able to perform any
client-side validation, the server may still offer a client-side validation
type and validation properties. This is not intended to help the client
determine whether a proposed password is acceptable, but could allow the
client to convey information about the requirement to the user in a more
flexible manner than simply providing the requirement description (e.g., it
could allow the client to provide information about the requirement to the
user in a different language than the server-provided description, or it
could allow information about one requirement to be split into multiple
elements, or multiple requirements combined into a single element.

If it appears in an LDAP protocol element (e.g., a get password quality
requirements extended response, or a password validation details response
control), it should have the following ASN.1 encoding:

```
PasswordQualityRequirement ::= SEQUENCE {
  description OCTET STRING,
  clientSideValidationInfo [0] SEQUENCE {
    validationType OCTET STRING,
    properties [0] SET OF SEQUENCE {
      name OCTET STRING,
      value OCTET STRING } OPTIONAL } OPTIONAL }
```

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordQualityRequirement.java
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 */
/*
 * This class provides an implementation of a connection pool health check that
 * can display information about the result of a bind operation. It will always
 * report information about an unsuccessful bind. It may optionally report
 * information about a successful bind, and optionally only if the successful
 * bind includes one or more response controls.
 * <BR>
 * <BLOCKQUOTE>
* **NOTE:** This class, and other classes within the
* [code com.unboundid.ldap.sdk.unboundidds] package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* interoperable way with other types of LDAP servers.

* </BLOCKQUOTE>
* <BR>
* Note that this health check is only intended to generate output when
* appropriate and will never throw an exception to indicate that a connection
* is unusable. If additional health checking is required, then this health
* check may be combined with others via an aggregate health check in a manner
* that ensures this health check will be invoked before any others that may
* throw an exception.
*/

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  jar/com/unboundid/ldap/sdk/unboundidds/tools/ReportBindResultLDAPConnectionPoolHealthCheck.java
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This interface defines a set of methods that will be invoked when an
intermediate response is returned in the course of processing a get changelog
batch extended operation. It may be used to process changelog entries as
they are returned by the server rather than accessing them in a list when the
extended result has been received.

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/** */
/** * This class provides an implementation of an extended request that may be used */
/** to request that the Directory Server deliver a one-time password to an end */
/** user that they may use to authenticate via an */
/** [ @link com.unboundid.ldap.sdk.unboundidds.UnboundIDDeliveredOTPBindRequest ]. */
/** * <BLOCKQUOTE> */
/** *   <B>NOTE:</B> This class, and other classes within the */
/** *   { @code com.unboundid.ldap.sdk.unboundidds } package structure, are only */
/** *   supported for use against Ping Identity, UnboundID, and */
/** *   Nokia/Alcatel-Lucent 8661 server products. These classes provide support */
/** *   for proprietary functionality or for external specifications that are not */
/** *   considered stable or mature enough to be guaranteed to work in an */
/** *   interoperable way with other types of LDAP servers. */
/** * </BLOCKQUOTE> */
/** * <BR> */
/** * Notes on the recommended use of this extended request: */
/** * <UL> */
/** *   <LI>Whenever possible, the user's static password should be provided. */
/** *       However, the server will allow the static password to be omitted if the */
/** *       authentication ID included in the request matches the authorization */
/** *       identity of the extended operation (either because that user is already */
/** *       authenticated on the connection, or because the request includes a */
/** *       proxied authorization or intermediate client control specifying that */
/** *       identity). In that case, the operation will be able to act as a */
/** *       "step-up" mechanism, providing further proof of the identity of an */
/** *       already-authenticated client rather than performing the complete */
/** *       authentication process.</LI> */
/** *   <LI>The request offers two mechanisms for indicating which delivery
* mechanism(s) should be considered: an option to specify just the
* delivery mechanism names, and an option to specify the names along with
* recipient IDs. At most one of these elements must be present in the
* request. If neither is present, the server will attempt to determine
* which delivery mechanisms and recipient IDs should be used. If the
* set of preferred delivery mechanisms includes multiple items, the
* server will attempt them in the order provided until it is able to
* successfully deliver the message. The server will not attempt to
* use any other delivery mechanisms that may be configured if the request
* includes a list of preferred delivery mechanisms.</LI>
* <LI>Although the message elements (message subject, and full and compact
* text before and after the OTP) are optional, it is recommended that
* they be supplied by the client. The server will provide a generic
* message if no message elements are included in the request.</LI>
* </UL>

* The OID for this extended request is 1.3.6.1.4.1.30221.2.6.24. It must have
* a value, and that value should have the following encoding:
* <PRE>
* DeliverOTPRequest ::= SEQUENCE {
*    authenticationID             [0] OCTET STRING, 
*    staticPassword               [1] OCTET STRING OPTIONAL, 
*    preferredMechNames           [2] SEQUENCE OF OCTET STRING OPTIONAL, 
*    preferredMechNamesAndIDs     [3] SEQUENCE OF SEQUENCE, 
*    mechanismName     OCTET STRING, 
*    recipientID       OCTET STRING OPTIONAL }, OPTIONAL, 
*    messageSubject               [4] OCTET STRING OPTIONAL, 
*    fullTextBeforeOTP            [5] OCTET STRING OPTIONAL, 
*    fullTextAfterOTP             [6] OCTET STRING OPTIONAL, 
*    compactTextBeforeOTP         [7] OCTET STRING OPTIONAL, 
*    compactTextAfterOTP          [8] OCTET STRING OPTIONAL, 
*    ... } 
* </PRE>

* @see com.unboundid.ldap.sdk.unboundidds.UnboundIDDeliveredOTPBIndRequest
* @see DeliverOneTimePasswordExtendedResult
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeliverOneTimePasswordExtendedRequest.java
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 */
/**
 * This enum defines the set of result code values that may be included in a
 * assured replication server result.
 */
<BLOCKQUOTE>
 *<BR>
 *<B>NOTE:</B> This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 *<BLOCKQUOTE>
 */

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 */

/**
 * This class provides an implementation of the end interactive transaction
 * extended request. It may be used to either commit or abort a transaction
 * that was created using the start interactive transaction request. See the
 * documentation in the {@link StartInteractiveTransactionExtendedRequest} for
 * an example of processing an interactive transaction.
 */

<br>

<blockquote>
 * NOTE: This class, and other classes within the
 * {com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*
* @deprecated The use of interactive transactions is strongly discouraged
* because it can create conditions which are prone to deadlocks
* between operations that may significantly affect performance and
* will result in the cancellation of one or both operations.
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/EndInteractiveTransactionExtendedRequest.java

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*/
/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at the first change available
* in the changelogs of all servers in the replication topology.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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  jar/com/unboundid/ldap/sdk/unboundidds/extensions/BeginningOfChangelogStartingPoint.java

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*/
/**
* This class defines a monitor entry that provides general information about
* the client connections currently established. Note that the information
* available for each client connection may vary based on the type of connection
* handler with which that connection is associated.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The server should present at most one client connection monitor entry. It
* can be retrieved using the
* [MonitorManager#getClientConnectionMonitorEntry] method. The
* [ClientConnectionMonitorEntry#getConnections] method may be used to
* retrieve information for each connection. Alternately, this information may
* be accessed using the generic API. See the [MonitorManager] class
* documentation for an example that demonstrates the use of the generic API for
* accessing monitor data.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/ClientConnectionMonitorEntry.java
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*/
/**
* <BLOCKQUOTE>
*   <B>NOTE:</B> The use of interactive transactions is strongly discouraged
*   because it can create conditions which are prone to deadlocks between
*   operations that may significantly affect performance and will result in the
*   cancellation of one or both operations. It is strongly recommended that
*   standard LDAP transactions (which may be started using a
*   [@link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest])
*   or a [@link MultiUpdateExtendedRequest] be used instead. Although they
*   cannot include arbitrary read operations, LDAP transactions and
*   multi-update operations may be used in conjunction with the
*   [@link com.unboundid.ldap.sdk.controls.AssertionRequestControl],
*   [@link com.unboundid.ldap.sdk.controls.PreReadRequestControl], and
*   [@link com.unboundid.ldap.sdk.controls.PostReadRequestControl] to
*   incorporate some read capability into a transaction, and in conjunction
*   with the [@link com.unboundid.ldap.sdk.ModificationType#INCREMENT]
*   modification type to increment integer values without the need to know the
*/
This class provides an implementation of the interactive transaction aborted extended result, which is used as an unsolicited notification to indicate that the server has aborted an interactive transaction without the client's explicit request.

@deprecated The use of interactive transactions is strongly discouraged because it can create conditions which are prone to deadlocks between operations that may significantly affect performance and will result in the cancellation of one or both operations.

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*precise value before or after the operation (although the pre-read and/or post-read controls may be used to determine that).*

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 */
/**
 * This class provides an implementation of a JSON object filter that can
 * perform a logical AND across the result obtained from a number of filters.
 * The AND filter will match an object only if all of the filters contained in
 * it match that object. An AND filter with an empty set of embedded filters
 * will match any object.
 * <B>NOTE:</B> This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 * considered stable or mature enough to be guaranteed to work in an
 * interoperable way with other types of LDAP servers.
 */

The fields that are required to be included in an "AND" filter are:

<ul>
<li>{@code andFilters} -- An array of JSON objects, each of which is a valid
 JSON object filter. Each of these filters must match a JSON object in
 order for the AND filter to match. If this is an empty array, then the
 filter will match any object.
</li>
</ul>

The following is an example of an AND filter that will match any JSON object:

```
{ "filterType" : "and",
  "andFilters" : [ ] }
```
The above filter can be created with the code:

```java
ANDJSONObjectFilter filter = new ANDJSONObjectFilter();
```

The following is an example of an AND filter that will match any JSON object in which there is a top-level field named "firstName" with a String value of "John" and top-level field named "lastName" with a String value of "Doe":

```java
{ "filterType" : "and",
  "andFilters" : [
    { "filterType" : "equals",
      "field" : "firstName",
      "value" : "John" },
    { "filterType" : "equals",
      "field" : "lastName",
      "value" : "Doe" } ] }
```

The above filter can be created with the code:

```java
ANDJSONObjectFilter filter = new ANDJSONObjectFilter(  
    new EqualsJSONObjectFilter("firstName", "John"),
    new EqualsJSONObjectFilter("firstName", "Doe"));
```

Found in path(s):
```
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/ANDJSONObjectFilter.java
```

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/**
 * This class defines a numeric gauge monitor entry, which obtains its
 * information from a numeric value in a monitor entry.
 *
 * <B>NOTE:</B> This class, and other classes within the
 * com.unboundid.ldap.sdk.unboundidds package structure, are only
 * supported for use against Ping Identity, UnboundID, and
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 *
  */

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jar/com/unboundid/ldap/sdk/unboundidds/monitors/NumericGaugeMonitorEntry.java

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of a bind operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/*
This class provides an implementation of the get effective rights request control, which may be included in a search request to indicate that matching entries should include information about the rights a given user may have when interacting with that entry.

<BR>

* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the [code com.unboundid.ldap.sdk.unboundidds] package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.
When the get effective rights control is included in a search request, then each entry returned may include information about the rights that the specified user has for that entry in the `@code aclRights` operational attribute. Note that because this is an operational attribute, it must be explicitly included in the set of attributes to return.

If the `@code aclRights` attribute is included in the entry, then it will be present with multiple sets of options. In one case, it will have an option of "entryLevel", which provides information about the rights that the user has for the entry in general (see the `@link EntryRight` enum for a list of the entry-level rights that can be held). In all other cases, it will have one option of "attributeLevel" and another option that is the name of the attribute for which the set of rights is granted (see the `@link AttributeRight` enum for a list of the attribute-level rights that can be held). In either case, the value will be a comma-delimited list of right strings, where each right string is the name of the right followed by a colon and a one to indicate that the right is granted or zero to indicate that it is not granted. The `@link EffectiveRightsEntry` class provides a simple means of accessing the information encoded in the values of the `@code aclRights` attribute.

This control was designed by Sun Microsystems, and it is not the same as the get effective rights control referenced in the draft-ietf-ldapext-acl-model Internet draft. The value for this control should be encoded as follows:

```
GET_EFFECTIVE_RIGHTS := SEQUENCE {
   authzID     authzID,
   attributes  SEQUENCE OF AttributeType OPTIONAL }
```

The following example demonstrates the use of the get effective rights control to determine whether user "uid=admin,dc=example,dc=com" has the ability to change the password for the user with uid "john.doe":

```
SearchRequest searchRequest = new SearchRequest("dc=example,dc=com", SearchScope.SUB, Filter.createEqualityFilter("uid", "john.doe"), "userPassword", "aclRights");
searchRequest.addControl(new GetEffectiveRightsRequestControl( "dn:uid=admin,dc=example,dc=com"));
SearchResult searchResult = connection.search(searchRequest);

for (SearchResultEntry entry : searchResult.getSearchEntries()) {
   EffectiveRightsEntry effectiveRightsEntry =
      new EffectiveRightsEntry(entry);
   // process effective rights...
}
```
if (effectiveRightsEntry.rightsInformationAvailable())
{
  if (effectiveRightsEntry.hasAttributeRight(AttributeRight.WRITE,
       "userPassword"))
  {
    // The admin user has permission to change the target user's password.
  }
  else
  {
    // The admin user does not have permission to change the target user's
    // password.
  }
  else
  {
    // No effective rights information was returned.
  }
} else
{
  // No effective rights information was returned.
}

/*

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetEffectiveRightsRequestControl.java
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*/
/**
 * This class defines a monitor entry that provides general information about a
 * Directory Server connection handler.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * Information that may be available in a connection handler monitor entry
 * includes:
 * <UL>
 *   <LI>The total number of connections that are established.</LI>
 *   <LI>The protocol that the connection handler uses to communicate with
 *       clients.</LI>
 *   <LI>A list of the listeners (addresses and ports on which the connection
 *       handler is listening for connections.</LI>
 *   <LI>Information about each of the connections established to the connection
 *       handler. The information available for these connections may vary by
 *       connection handler type.</LI>
 * </UL>
 * The connection handler monitor entries provided by the server can be
 * retrieved using the {@link MonitorManager#getConnectionHandlerMonitorEntries}
 * method. These entries provide specific methods for accessing information
 * about the connection handler (e.g., the
 * {@link ConnectionHandlerMonitorEntry#getNumConnections} method can be used
 * to retrieve the total number of connections established). Alternately, this
 * information may be accessed using the generic API. See the
 * {@link MonitorManager} class documentation for an example that demonstrates
 * the use of the generic API for accessing monitor data.
Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/ConnectionHandlerMonitorEntry.java

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 */

/**
 * This class provides an implementation of a JSON object filter that can be
 * used to identify JSON objects that have at least one value for a specified
 * field that is less than a given value.
 * <BR>
 * <BLOCKQUOTE>
* NOTE: This class, and other classes within the
* \{@code com.unboundid.ldap.sdk.unboundidds\} package structure, are only
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* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* 
* The fields that are required to be included in a "less than" filter are:
* 
* <UL>
*   <LI>
*   \{@code field\} -- A field path specifier for the JSON field for which to
*   make the determination. This may be either a single string or an array
*   of strings as described in the "Targeting Fields in JSON Objects" section
*   of the class-level documentation for \{@link JSONObjectFilter\}.
*   </LI>
*   <LI>
*   \{@code value\} -- The value to use in the matching. It must be either a
*   string (which will be compared against other strings using lexicographic
*   comparison) or a number.
*   </LI>
* </UL>
* The fields that may optionally be included in a "less than" filter are:
* 
* <UL>
*   <LI>
*   \{@code allowEquals\} -- Indicates whether to match JSON objects that have
*   a value for the specified field that matches the provided value. If
*   present, this field must have a Boolean value of either \{@code true\} (to
*   indicate that it should be a "less-than or equal to" filter) or
*   \{@code false\} (to indicate that it should be a strict "less-than"
*   filter). If this is not specified, then the default behavior will be to
*   perform a strict "less-than" evaluation.
*   </LI>
*   <LI>
*   \{@code matchAllElements\} -- Indicates whether all elements of an array
*   must be less than (or possibly equal to) the specified value. If
*   present, this field must have a Boolean value of \{@code true\} (to
*   indicate that all elements of the array must match the criteria for this
*   filter) or \{@code false\} (to indicate that at least one element of the
*   array must match the criteria for this filter). If this is not
*   specified, then the default behavior will be to require only at least
*   one matching element. This field will be ignored for JSON objects in
*   which the specified field has a value that is not an array.
*   </LI>
*   <LI>
*   \{@code caseSensitive\} -- Indicates whether string values should be
*   treated in a case-sensitive manner. If present, this field must have a
Boolean value of either \{@code true\} or \{@code false\}. If it is not provided, then a default value of \{@code false\} will be assumed so that strings are treated in a case-insensitive manner.

Example

The following is an example of a "less than" filter that will match any JSON object with a top-level field named "loginFailureCount" with a value that is less than or equal to 3:

```java
{ "filterType" : "lessThan",
  "field" : "loginFailureCount",
  "value" : 3,
  "allowEquals" : true }
```

The above filter can be created with the code:

```java
LessThanJSONObjectFilter filter =
    new LessThanJSONObjectFilter("loginFailureCount", 3);
filter.setAllowEquals(true);
```

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*/
/*
* This class defines a data structure that will provide information about
* notices pertaining to a user's password policy state (items that might be
* of interest, but do not necessarily represent a current or imminent problem
* with the account). It includes a number of predefined notice types, but also
* allows for the possibility of additional notice types that have not been
* defined.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
*/

//

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateAccountUsabilityNotice.java
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*/
/**
* This class provides an implementation of the get connection ID extended
* operation as used in the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
* 8661 Directory Server. It may be used to obtain the connection ID associated
* with the current connection. This is primarily useful for debugging
* purposes, and the {@link IntermediateClientRequestControl} may also be used
* to obtain this (along with other information).
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* [@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.1.6.2. It does not
* have a value.
* <BR>
* Example</H2>
The following example demonstrates the process for using the get connection ID extended operation:

```java
GetConnectionIDExtendedResult result =
    (GetConnectionIDExtendedResult) connection.processExtendedOperation(
        new GetConnectionIDExtendedRequest());

// NOTE: The processExtendedOperation method will generally only throw an exception if a problem occurs while trying to send the request or read the response. It will not throw an exception because of a non-success response.

if (result.getResultCode() == ResultCode.SUCCESS) {
    long connectionID = result.getConnectionID();
}
```

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetConnectionIDExtendedRequest.java

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This class provides an extended request that may be used to create or update a notification subscription.

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The request has an OID of 1.3.6.1.4.1.30221.2.6.38 and a value with the following encoding:

```
SetNotificationSubscriptionRequest ::= SEQUENCE {
  notificationManagerID          OCTET STRING,
  notificationDestinationID      OCTET STRING,
  notificationSubscriptionID     OCTET STRING,
  subscriptionDetails            SEQUENCE OF OCTET STRING }
```

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* /
* **
* This class defines a Directory Server task that can be used to cause the
* server to execute a specified command with a given set of arguments.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B>  This class, and other classes within the
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* <BR>
* The server imposes limitation on the commands that can be executed and on the
* circumstances in which they can be invoked.  See the
* exec-command-whitelist.txt file in the server's config directory for a
* summary of these restrictions, and for additional information about exec
* tasks.
* The properties that are available for use with this type of task include:
* 
* <LI>The absolute path to the command to execute. This must be provided.</LI>
* <LI>An optional string with arguments to provide to the command.</LI>
* <LI>An optional path to a file to which the command's output should be written.</LI>
* <LI>An optional boolean flag that indicates whether to log the command's output to the server error log.</LI>
* <LI>An optional string that specifies the task state that should be used if the command completes with a nonzero exit code.</LI>
* <LI>An optional string that specifies the path to the working directory to use when executing the command.</LI>
* </UL>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundidds/tasks/ExecTask.java
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This class defines a Directory Server task that can be used to add the
contents of one or more files to the server schema.

The properties that are available for use with this type of task include:

- The names of the files to add to the server schema. The specified
  files must exist within the server's schema configuration directory
  with the appropriate schema elements defined. They should be only the
  base names for the file and should not include any path
  information. At least one name must be provided.

This class, and other classes within the
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interoperable way with other types of LDAP servers.

The properties that are available for use with this type of task include:

- The names of the files to add to the server schema. The specified
  files must exist within the server's schema configuration directory
  with the appropriate schema elements defined. They should be only the
  base names for the file and should not include any path
  information. At least one name must be provided.

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/**
 * This class provides information about a property that may be used to schedule
 * a task.
 *<BR>
 *<BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
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 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 *<BR>
 * Elements of a task property include:
 *<UL>
 *<LI>The name of the LDAP attribute used to store values for this
 *  property. </LI>
 *<LI>A user-friendly display name for the property. </LI>
 *<LI>A user-friendly description for the property. </LI>
 *<LI>The expected data type for values of the property. </LI>
 *<LI>An optional set of allowed values for the property. If this is
 *  defined, then the property will not be allowed to have any value that
* is not included in this set.</LI>
* <LI>A flag that indicates whether the property is required when scheduling
* the corresponding type of task.</LI>
* <LI>A flag that indicates whether the property is allowed to have multiple
* values.</LI>
* <LI>A flag that indicates whether the property should be considered
* advanced and therefore may be hidden from users if a simplified
* interface is to be presented.</LI>
* </UL>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tasks/TaskProperty.java
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 */
This class provides an implementation for a response control that can be returned by the server in the response for add, modify, and password modify requests that include the password validation details request control. This response control will provide details about the password quality requirements that are in effect for the operation and whether the password included in the request satisfies each of those requirements.

This response control has an OID of 1.3.6.1.4.1.30221.2.5.41, a criticality of `false`, and a value with the provided encoding:

```plaintext
PasswordValidationDetailsResponse ::= SEQUENCE {
    validationResult            CHOICE {
        validationDetails             [0] SEQUENCE OF
            PasswordQualityRequirementValidationResult,
        noPasswordProvided            [1] NULL,
        multiplePasswordsProvided     [2] NULL,
        noValidationAttempted         [3] NULL,
        ... },
    missingCurrentPassword     [3] BOOLEAN DEFAULT FALSE,
    mustChangePassword         [4] BOOLEAN DEFAULT FALSE,
    secondsUntilExpiration     [5] INTEGER OPTIONAL,
    ... }
```

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 */

/**
 * This class provides an implementation of a request control that can be
 * included in an add request, modify request, or password modify extended
 * request to control the way the server should behave when performing a
 * password change. The requester must have the password-reset privilege.
 * <B><BR></B>
 * <BLOCKQUOTE>
 * This class, and other classes within the
 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 * for proprietary functionality or for external specifications that are not
 * considered stable or mature enough to be guaranteed to work in an
 * interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * This request control has an OID of 1.3.6.1.4.1.30221.2.5.51. The criticality
* may be either true or false. It must have a value, and the value should have
* the following encoding:
* <PRE>
* PasswordUpdateBehaviorRequest ::= SEQUENCE {
*   isSelfChange                        [0] BOOLEAN OPTIONAL,
*   allowPreEncodedPassword             [1] BOOLEAN OPTIONAL,
*   skipPasswordValidation              [2] BOOLEAN OPTIONAL,
*   ignorePasswordHistory              [3] BOOLEAN OPTIONAL,
*   ignoreMinimumPasswordAge            [4] BOOLEAN OPTIONAL,
*   passwordStorageScheme               [5] OCTET STRING OPTIONAL,
*   mustChangePassword                  [6] BOOLEAN OPTIONAL,
*   ... }
* </PRE>
* @see  PasswordUpdateBehaviorRequestControlProperties
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordUpdateBehaviorRequestControl.java
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/*
 * This class provides an implementation of the password policy response control
 * as described in draft-behera-ldap-password-policy. It may be used to provide
 * information related to a user's password policy. It may include at most one
 * warning from the set of {@link PasswordPolicyWarningType} values and at most
 * one error from the set of {@link PasswordPolicyErrorType} values. See the
 * documentation for those classes for more information on the information that
 * may be included. See the {@link PasswordPolicyRequestControl} documentation
 * for an example that demonstrates the use of the password policy request and
 * response controls.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 *   for proprietary functionality or for external specifications that are not
 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * The control has an OID of 1.3.6.1.4.1.42.2.27.8.5.1 and a criticality of
 * false. It must have a value with the following encoding:
 * <PRE>
 * PasswordPolicyResponseValue ::= SEQUENCE {
 *   warning [0] CHOICE {
 *     timeBeforeExpiration [0] INTEGER (0 .. maxInt),
 *     graceAuthNsRemaining [1] INTEGER (0 .. maxInt) } OPTIONAL,
 *   error [1] ENUMERATED {
 *     passwordExpired (0),
 *     accountLocked (1),
 *     changeAfterReset (2),
 *     passwordModNotAllowed (3),
 *     mustSupplyOldPassword (4),
 *     insufficientPasswordQuality (5),
 *     passwordTooShort (6),
 *     passwordTooYoung (7),
 *     passwordInHistory (8) } OPTIONAL }
 * </PRE>
Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordPolicyResponseControl.java
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 */

/**
 * This class provides an { @link LDAPResultWriter } instance that formats results
 * in JSON.
 * <BR>
 * <BLOCKQUOTE>
 * <B>NOTE:</B> This class, and other classes within the
* {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tools/JSONLDAPResultWriter.java
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This class provides a command-line tool that can be used to delete one or more entries from an LDAP directory server. The DNs of entries to delete can be provided through command-line arguments, read from a file, or read from standard input. Alternately, the tool can delete entries matching a given search filter.

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*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPDelete.java

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/**
* This class provides an [@link LDAPCompare] output handler that will format
* messages in column-separated values (CSV) format.
* <B><BR></B>
* <B>NOTE:</B> This class, and other classes within the
* [@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPCompareCSVOutputHandler.java
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This class provides information about the types of alarm severities that may
be included in alarm entries.

bla
* This class, and other classes within the
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  jar/com/unboundid/ldap/sdk/unboundidds/AlarmSeverity.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server error log.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/

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*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/logs/ErrorLogMessage.java
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 * along with this program; if not, see <http://www.gnu.org/licenses>.
 */
/**
 * This class defines a Directory Server task that can be used to shut down or
 * restart the server.
 *
 *<BR>
 *<BLOCKQUOTE>
 *<B>NOTE:</B> This class, and other classes within the
 *{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *supported for use against Ping Identity, UnboundID, and
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 *considered stable or mature enough to be guaranteed to work in an
 *interoperable way with other types of LDAP servers.
 *</BLOCKQUOTE>
 *
 * The properties that are available for use with this type of task include:
 */
<UL>
* A flag that indicates whether to shut down the server or to perform
* an in-core restart (in which the server shuts down and restarts itself
* within the same JVM).</LI>
* An optional message that can be used to provide a reason for the
* shutdown or restart.</LI>
* </UL>
*/

Found in path(s):
*/
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/tasks/ShutdownTask.java
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*/
/**  
* This class provides support for an UnboundID-proprietary SASL mechanism that  
* allows for multifactor authentication using a one-time password that has been  
* delivered to the user via some out-of-band mechanism as triggered by the  
* [ @link DeliverOneTimePasswordExtendedRequest ] (which requires the user to  
* provide an authentication ID and a static password).  
*/  
*  
* <BLOCKQUOTE>  
* <B>NOTE:</B> This class, and other classes within the  
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* </BLOCKQUOTE>  
*  
* The name for this SASL mechanism is "UNBOUNDID-DELIVERED-OTP". An  
* UNBOUNDID-DELIVERED-OTP SASL bind request MUST include SASL credentials with  
* the following ASN.1 encoding:  
*  
* <PRE>  
* UnboundIDDeliveredOTPCredentials ::= SEQUENCE {  
*   authenticationID     [0] OCTET STRING,  
*   authorizationID      [1] OCTET STRING OPTIONAL,  
*   oneTimePassword      [2] OCTET STRING,  
*   ... }  
* </PRE>  
*/  

Found in path(s):  
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-  
jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDDeliveredOTPBindRequest.java  
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/**
* This class defines an extended request that may be used to request that a
* Ping Identity Directory Server instance (or related Ping Identity server
* product) replace its inter-server certificate. The new certificate data may
* be contained in a key store file on the server filesystem or included in the
* extended request itself.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.69 and a value with
* the following encoding:
* <PRE>
* ReplaceInterServerCertificateValue ::= SEQUENCE {
*   keyStoreContent   CHOICE {
*     keyStoreFile     [0] KeyStoreFileSequence,
*     keyStoreData     [1] KeyStoreDataSequence,
*     certificateData  [2] CertificateDataSequence,
*     ...  },
* */
skipCertificateValidation [16] BOOLEAN DEFAULT FALSE,
... }

*   KeyStoreFileSequence ::= SEQUENCE {
*     path [8] OCTET STRING,
*     keyStorePIN [9] OCTET STRING,
*     privateKeyPIN [10] OCTET STRING OPTIONAL,
*     keyStoreType [11] OCTET STRING OPTIONAL,
*     sourceCertificateAlias [12] OCTET STRING OPTIONAL,
*     ... }

*   KeyStoreDataSequence ::= SEQUENCE {
*     keyStoreData [13] OCTET STRING,
*     keyStorePIN [9] OCTET STRING,
*     privateKeyPIN [10] OCTET STRING OPTIONAL,
*     keyStoreType [11] OCTET STRING OPTIONAL,
*     sourceCertificateAlias [12] OCTET STRING OPTIONAL,
*     ... }

*   CertificateDataSequence ::= SEQUENCE {
*     certificateChain [14] SEQUENCE SIZE (1..MAX) OF OCTET STRING,
*     privateKey [15] OCTET STRING OPTIONAL,
*     ... }
</PRE>
* <BR><BR>
*
* @see ReplaceInterServerCertificateExtendedResult
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceInterServerCertificateExtendedRequest.java
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 */

/**
 * This class provides an implementation of an extended request which may be
 * used to validate a TOTP password for a user. Note that this should not be
 * used as an alternative to authentication because it does not perform password
 * policy processing. Rather, this extended operation should be used only to
 * obtain additional assurance about the identity of a user that has already
 * been authenticated through some other means.
 */

/**
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 * </BLOCKQUOTE>

 * The extended request has an OID of 1.3.6.1.4.1.30221.2.6.15 and a value with
 * the following encoding:
 */

/*
 * ValidateTOTPPasswordRequest ::= SEQUENCE {
 *   userDN     [0] LDAPDN,
 *   totpPassword [1] OCTET STRING,
 *   ...    }
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 */

/**
 * This class provides an implementation of the virtual attributes only request
 * control, which may be included in a search request to indicate that only
 * virtual attributes should be included in matching entries.
 * <BR>
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* supported for use against Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 server products. These classes provide support
* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This control is not based on any public standard, but was first introduced in
* the Netscape/iPlanet Directory Server. It is also supported in the Sun Java
* System Directory Server, OpenDS, and the Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 Directory Server. It does not have a value.
* <BR>
* Example</H2>
* The following example demonstrates the use of the virtual attributes only
* request control:
* <PRE>
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
*      SearchScope.SUB, Filter.createEqualityFilter("uid", "john.doe"));
* searchRequest.addControl(new VirtualAttributesOnlyRequestControl());
* SearchResult searchResult = connection.search(searchRequest);
* </PRE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/controls/VirtualAttributesOnlyRequestControl.java
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//
/**
 * This class defines a Directory Server task that can be used to invoke
 * third-party code created using the UnboundID Server SDK.
 * <BR>
 * <BLOCKQUOTE>
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 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * The properties that are available for use with this type of task include:
 * <UL>
 *   <LI>The fully-qualified name of the Java class providing the logic for the
 *       third-party task. This must be provided.</LI>
 *   <LI>A list of the arguments to use for the task.</LI>
 * </UL>
 */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/Ldap/sdk/unboundidds/tasks/ThirdPartyTask.java

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of a modify operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
* NOTE: This class, and other classes within the
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 */

/**
 * This class provides a number of utility methods primarily intended for use
 * with command-line tools.
 */

<BLOCKQUOTE>
<br/>
<br/></BLOCKQUOTE>

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* jar/com/unboundid/ldap/sdk/unboundidds/tools/ToolUtils.java

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*/
/**
* This class provides a data structure for holding information read from a
value of the ds-changelog-attr-exceeded-max-values-count attribute. Values should be in the form "attr=X,beforeCount=Y,afterCount=Z", where "X" is the name of the attribute which had too many values before and/or after the change, "Y" is the number of values the attribute had before the change, and "Z" is the number of values the attribute had after the change.

<BR>
* <BLOCKQUOTE>
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This enum defines a set of warning types that may be included in the password
policy response control as defined in draft-behera-ldap-password-policy.

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 */
/**
 * This class provides a set of properties that can be used in conjunction with
 * the MatchingEntryCountRequestControl.
 * <B>NOTE:</B> This class, and other classes within the
 * com.unboundid.ldap.sdk.unboundidds package structure, are only
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*/
This class contains a data structure which provides information about the value of an LDAP join request control, which may or may not include a nested join. See the class-level documentation for the `JoinRequestControl` class for additional information and an example demonstrating its use.

This class contains a data structure which provides information about the value of an LDAP join request control, which may or may not include a nested join. See the class-level documentation for the `JoinRequestControl` class for additional information and an example demonstrating its use.

The value of the join request control is encoded as follows:

```
LDAPJoin ::= SEQUENCE {
    joinRule         JoinRule,
    baseObject       CHOICE {
        useSearchBaseDN      [0] NULL,
        useSourceEntryDN     [1] NULL,
        useCustomBaseDN      [2] LDAPDN,
        ... }
}
```
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*/

/**
 * This class provides a collect support data log capture window implementation
 * that indicates that the tool should capture information for a specified
 * length of time up to the time the CollectSupportDataExtendedRequest was received.
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   @code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
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 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 *
 * @see CollectSupportDataExtendedRequest
 */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DurationCollectSupportDataLogCaptureWindow.java
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*
* This class provides an implementation of a JSON object filter that can be
* used to identify JSON objects that have a particular value for a specified
* field.
* *
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboudid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* *
* The fields that are required to be included in a "regular expression" filter
* are:
* *
* <UL>
*     <LI> [@code field] -- A field path specifier for the JSON field for which to
*         make the determination. This may be either a single string or an array
*         of strings as described in the "Targeting Fields in JSON Objects" section
*         of the class-level documentation for [@link JSONObjectFilter].
* </UL>
* { @code regularExpression} -- The regular expression to use to identify
* matching values. It must be compatible for use with the Java
* { @code java.util.regex.Pattern} class.
* </LI>
* </UL>
* The fields that may optionally be included in a "regular expression" filter
* are:
* <UL>
* <LI>
* { @code matchAllElements} -- Indicates whether all elements of an array
* must match the provided regular expression. If present, this field must
* have a Boolean value of { @code true} (to indicate that all elements of
* the array must match the regular expression) or { @code false} (to
* indicate that at least one element of the array must match the regular
* expression). If this is not specified, then the default behavior will be
* to require only at least one matching element. This field will be
* ignored for JSON objects in which the specified field has a value that is
* not an array.
* </LI>
* </UL>
* </H2>Example</H2>
* The following is an example of a "regular expression" filter that will match
* any JSON object with a top-level field named "userID" with a value that
* starts with an ASCII letter and contains only ASCII letters and numeric
* digits:
* <PRE>
* { "filterType": "regularExpression",
* "field": "userID",
* "regularExpression": "^[a-zA-Z][a-zA-Z0-9]*$" }
* </PRE>
* The above filter can be created with the code:
* <PRE>
* RegularExpressionJSONObjectFilter filter =
*     new RegularExpressionJSONObjectFilter("userID",
*         "^[a-zA-Z][a-zA-Z0-9]*$");
* </PRE>
*/

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 * /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/RegularExpressionJSONObjectFilter.java
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 */
/**
 * This class provides a search result listener that will collect the DNs of
 * entries matching a set of search criteria.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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 */

/**
 * This class provides an implementation of a control that may be included in a
 * search result entry in response to a join request control to provide a set of
 * entries related to the search result entry. See the class-level
 * documentation for the \{@link JoinRequestControl} class for additional
 * information and an example demonstrating its use.
 * \<BR>
 * \<BLOCKQUOTE>
 * \<B>NOTE:</B> This class, and other classes within the
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* interoperable way with other types of LDAP servers.

* <BLOCKQUOTE>

* The value of the join result control is encoded as follows:

* <PRE>

* JoinResult ::= SEQUENCE {
*   COMPONENTS OF LDAPResult,
*   entries     [4] SEQUENCE OF JoinedEntry }

* </PRE>

*/

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This class provides an exception that may be thrown when attempting to obtain
the value of an updated attribute as it appeared before or after a change
was processed, but the number of values for that attribute exceeded the
maximum number to include in a changelog entry.

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 */

/**
 * This class provides a data structure that holds information about a log
 * message contained in a Directory Server access or error log file.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
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 */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/LogMessage.java
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*/
/**
 * This class defines a Directory Server task that can be used to cause entries
 * contained in a local DB backend to be re-encoded, which may be used to
 * apply any configuration changes that affect the encoding of that entry (e.g.,
 * if the entry should be encrypted, hashed, compressed, or fully or partially
 * uncached; or if these settings should be reverted).
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
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 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * The properties that are available for use with this type of task include:
 * <UL>
 *   <LI>The backend ID of the backend in which entries should be re-encoded.
 *     This must be provided.</LI>
 *   <LI>The base DN of a branch of entries to include in the re-encode
 *     processing.</LI>
 *   <LI>The base DN of a branch of entries to exclude from the re-encode
 *     processing.</LI>
 * </UL>
* <LI>A filter to use to identify entries to include in the re-encode processing.</LI>
* <LI>A filter to use to identify entries to exclude from the re-encode processing.</LI>
* <LI>The maximum rate at which to re-encode entries, in number of entries per second.</LI>
* <LI>An indication as to whether to skip entries that are fully uncached.</LI>
* <LI>An indication as to whether to skip entries that are partially uncached.</LI>
* </UL>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/ReEncodeEntriesTask.java

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*/
/**
This class provides a data structure that holds information about a log
message that may appear in the Directory Server access log about a bind
request forwarded to a backend server.
*/

/*<BR>
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*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/logs/BindForwardAccessLogMessage.java
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*/
/**
 * This class provides an implementation of the account usable request control.
 * It may be included in search requests, in which case each search result entry
 * matching that request should include the corresponding response control to
 * obtain information about the usability of the user account associated with
 * that entry. In particular, it indicates whether a bind with valid
 * credentials would likely succeed and the resulting connection would be
 * usable, and if not the reason for the potential failure. See the
 * [AccountUsableResponseControl](#AccountUsableResponseControl) for information about the information
 * that is taken into account.
 */

This control was designed by Sun Microsystems and is not based on any RFC or
Internet draft. It does not include a value.

This class, and other classes within the
[@code com.unboundid.ldap.sdk.unboundidds](#com.unboundid.ldap.sdk.unboundidds) package structure, are only
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The following example demonstrates the use of the account usable controls to
determine whether the account for user with uid "john.doe" is usable:

```java
SearchRequest searchRequest =
        new SearchRequest("dc=example,dc=com", SearchScope.SUB,
             Filter.createEqualityFilter("uid", "john.doe");
searchRequest.addControl(new AccountUsableRequestControl());
SearchResult searchResult = connection.search(searchRequest);

boolean isUsable = false;
```
for (SearchResultEntry entry : searchResult.getSearchEntries())
{
    AccountUsableResponseControl c =
        AccountUsableResponseControl.get(entry);
    isUsable = c.isUsable();
    if (isUsable)
    {
        // The account is usable.
    }
    else
    {
        // The account is not usable.
        List&lt;String&gt; unusableReasons = c.getUnusableReasons();
    }
}
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/controls/AccountUsableRequestControl.java

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This class provides support for generating a JSON object that may be included in a REPLACE modification to the ds-pwp-modifiable-state-json operational attribute to manipulate elements in the user's password policy state.

@see ModifiablePasswordPolicyStateJSON
@see ModifiablePasswordPolicyStateJSONField
@see PasswordPolicyStateJSON
@see PasswordPolicyStateExtendedRequest

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/ModifiablePasswordPolicyStateJSONBuilder.java

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*/
/**
* This class provides an implementation of an LDAP control that may be included
* in a bind response to provide information about the authenticated and/or
* authorized user.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The value of this control will be encoded as follows:
* <PRE>
* GetAuthorizationEntryResponse ::= SEQUENCE {
*   isAuthenticated     [0] BOOLEAN,
*   identitiesMatch     [1] BOOLEAN,
*   authNEntry          [2] AuthEntry OPTIONAL,
*   authZEntry          [3] AuthEntry OPTIONAL }
* 
* AuthEntry ::= SEQUENCE {
*   authID         [0] AuthzId OPTIONAL,
* */
* authDN     [1] LDAPDN,
* attributes [2] PartialAttributeList
*/

<BR>

* See the documentation for the { @link GetAuthorizationEntryRequestControl} class for more information and an example demonstrating the use of these controls.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetAuthorizationEntryResponseControl.java

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NOTE: The use of interactive transactions is strongly discouraged because it can create conditions which are prone to deadlocks between operations that may significantly affect performance and will result in the cancellation of one or both operations. It is strongly recommended that standard LDAP transactions (which may be started using a
[@link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest]) or a [@link MultiUpdateExtendedRequest] be used instead. Although they cannot include arbitrary read operations, LDAP transactions and multi-update operations may be used in conjunction with the
[@link com.unboundid.ldap.controls.AssertionRequestControl],
[@link com.unboundid.ldap.controls.PreReadRequestControl], and
[@link com.unboundid.ldap.controls.PostReadRequestControl] to incorporate some read capability into a transaction, and in conjunction with the
[@link com.unboundid.ldap.ModificationType#INCREMENT] modification type to increment integer values without the need to know the precise value before or after the operation (although the pre-read and/or post-read controls may be used to determine that).

This class provides an implementation of the start interactive transaction extended request. It may be used to begin a transaction that allows multiple operations to be processed as a single atomic unit. Interactive transactions may include read operations, in which case it is guaranteed that no operations outside of the transaction will be allowed to access the associated entries until the transaction has been committed or aborted. The
[@link StartInteractiveTransactionExtendedResult] that is returned will include a a transaction ID, which should be included in each operation that is part of the transaction using the
[@code InteractiveTransactionSpecificationRequestControl]. After all requests for the transaction have been submitted to the server, the
[@link EndInteractiveTransactionExtendedRequest] should be used to commit that transaction, or it may also be used to abort the transaction if it is decided that it is no longer needed.

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Whenever the client sends a start interactive transaction request to the server, the [@link StartInteractiveTransactionExtendedResult] that is returned will include a transaction ID that may be used to identify the transaction for all operations which are to be performed as part of the transaction. This transaction ID should be included in a [@code InteractiveTransactionSpecificationRequestControl] attached to each request that is to be processed as part of the transaction. When the transaction has completed, the [@link EndInteractiveTransactionExtendedRequest] may be used to commit it, and it may also be used at any time to abort the transaction if it is no longer needed.

### Example

The following example demonstrates the process for creating an interactive transaction, processing multiple requests as part of that transaction, and then commits the transaction.

```java
// Start the interactive transaction and get the transaction ID.
StartInteractiveTransactionExtendedRequest startTxnRequest =
    new StartInteractiveTransactionExtendedRequest("dc=example,dc=com");
StartInteractiveTransactionExtendedResult startTxnResult =
    (StartInteractiveTransactionExtendedResult)
    connection.processExtendedOperation(startTxnRequest);
if (startTxnResult.getResultCode() != ResultCode.SUCCESS)
{
   throw new LDAPException(startTxnResult);
}
ASN1OctetString txnID = startTxnResult.getTransactionID();

// At this point, we have a valid transaction. We want to ensure that the
// transaction is aborted if any failure occurs, so do that in a
// try-finally block.
boolean txnFailed = true;
try
{
   // Perform a search to find all users in the "Sales" department.
   SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
       SearchScope.SUB, Filter.createEqualityFilter("ou", "Sales");
   searchRequest.addControl(
       new InteractiveTransactionSpecificationRequestControl(txnID, true,
           true));
   SearchResult searchResult = connection.search(searchRequest);
   if (searchResult.getResultCode() != ResultCode.SUCCESS)
   {
      throw new LDAPException(searchResult);
   }
   \end{verbatim}

```
// Iterate through all of the users and assign a new fax number to each of them.
for (SearchResultEntry e : searchResult.getSearchEntries())
{
    ModifyRequest modifyRequest = new ModifyRequest(e.getDN(),
            new Modification(ModificationType.REPLACE,
               "facsimileTelephoneNumber", "+1 123 456 7890");
    modifyRequest.addControl(
            new InteractiveTransactionSpecificationRequestControl(txnID, true,
            true));
    connection.modify(modifyRequest);
}

// Commit the transaction.
ExtendedResult endTxnResult = connection.processExtendedOperation(
        new EndInteractiveTransactionExtendedRequest(txnID, true));
if (endTxnResult.getResultCode() == ResultCode.SUCCESS)
{
    txnFailed = false;
}
}

} finally
{
    if (txnFailed)
    {
        connection.processExtendedOperation(
            new EndInteractiveTransactionExtendedRequest(txnID, false));
    }
}
</PRE>

@deprecated The use of interactive transactions is strongly discouraged because it can create conditions which are prone to deadlocks between operations that may significantly affect performance and will result in the cancellation of one or both operations.
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 */

/**
 * This class provides an implementation of a control which can be used to
 * request that the Directory Server include extended information when returning
 * a subschema subentry. In the Ping Identity, UnboundID, and
 * Nokia/Alcatel-Lucent 8661 Directory Server, this will cause the server to
 * include the X-SCHEMA-FILE extension (which contains the path to the file in
 * which that schema element is defined) and the X-READ-ONLY extension (which
 * indicates whether that schema element is read-only and cannot be altered by
 * external clients).
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
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* considered stable or mature enough to be guaranteed to work in an
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* </BLOCKQUOTE>
* <BR>
* This control is not based on any public specification, and has been defined
* by Ping Identity Corporation. It does not have a value, and may or may not be
* critical. It should only be included in search requests.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the procedure to use for requesting the
* Directory Server schema with extended information. Note that the
* [LDAPInterface.getSchema] and [Schema.getSchema] convenience
* methods cannot be used because they do not allow you to include controls in
* the request.
* <PRE>
* String schemaDN = Schema.getSubschemaSubentryDN(connection, "");
* SearchRequest searchRequest = new SearchRequest(schemaDN, SearchScope.BASE,
*     Filter.createPresenceFilter("objectClass"), "", "+");
* searchRequest.addControl(new ExtendedSchemaInfoRequestControl());
* SearchResult searchResult = connection.search(searchRequest);
* 
* Schema schema = null;
* if (searchResult.getEntryCount() == 1)
*     { 
*         schema = new Schema(searchResult.getSearchEntries().get(0));
*     } 
* </PRE>
* */

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This class provides a response control that may be included in the response to add, modify, and modify DN requests that included the UniquenessRequestControl. It provides information about the uniqueness processing that was performed.

The control has an OID of 1.3.6.1.4.1.30221.2.5.53 and a criticality of false. It must have a value with the following encoding:

```
UniquenessResponseValue ::= SEQUENCE {
  uniquenessID                [0] OCTET STRING,
  preCommitValidationPassed   [1] BOOLEAN OPTIONAL,
  postCommitValidationPassed  [2] BOOLEAN OPTIONAL,
  validationMessage           [3] OCTET STRING OPTIONAL,
  ... }
```

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 */

/**
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about the result
 * of replication assurance processing for a modify DN operation.
 * <BR>
 * <BLOCKQUOTE>
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Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyDNAssuranceCompletedAccessLogMessage.java

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This class provides an implementation of a request control that may be included in a search request to indicate that the server should reject the request if the server cannot use its defined indexes to identify matching entries efficiently. This can prevent a requester with the unindexed search privilege from inadvertently submitting an expensive search request that could require a long time to complete and potentially consume significant server resources. This request control has an OID of "1.3.6.1.4.1.30221.2.5.54", may have a criticality of either true or false, and does not take a value.

@see PermitUnindexedSearchRequestControl

Found in path(s):

* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/RejectUnindexedSearchRequestControl.java

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This class provides an implementation of an extended request that may be used
* to register a YubiKey OTP device with the Directory Server so that it may be
* used to authenticate using the UNBOUNDID-YUBIKEY-OTP SASL mechanism.

This extended request has an OID of 1.3.6.1.4.1.30221.2.6.54, and it must
* include a request value with the following encoding:

```plaintext
   RegisterYubiKeyOTPDeviceRequest ::= SEQUENCE {
       authenticationID     [0] OCTET STRING OPTIONAL,
       staticPassword       [1] OCTET STRING OPTIONAL,
       yubiKeyOTP           [2] OCTET STRING,
       ... }
```

@see DeregisterYubiKeyOTPDeviceExtendedRequest
@see com.unboundid.ldap.sdk.unboundidds.UnboundIDYubiKeyOTPBindRequest
@see com.unboundid.ldap.sdk.unboundidds.RegisterYubiKeyOTPDevice
Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/RegisterYubiKeyOTPDeviceExtendedRequest.java
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*/
/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at a change identified by a
* replication CSN. The first change of the batch will be the change with this
* CSN.
* <BR>
* <BLOCKQUOTE>
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Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ResumeWithCSNStartingPoint.java
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*
This class defines a monitor entry that provides general information about
the state of an index in a Directory Server backend. Note that the term
"index" may refer to a number of different things, including attribute
indexes (in which each individual index type will be considered a separate
index, so if "cn" has equality and substring index types then that will be
considered two separate indexes), VLV indexes, and system indexes (for
databases that are maintained internally, like id2entry, dn2id, id2children,
and id2subtree).

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The set of index monitor entries published by the directory server can be
obtained using the {@link MonitorManager#getIndexMonitorEntries} method.
Specific methods are available for accessing the associated monitor data
(e.g., {@link IndexMonitorEntry#getBackendID} to retrieve the backend ID),
and there are also methods for accessing this information in a generic manner
(e.g., {@link IndexMonitorEntry#getMonitorAttributes} to retrieve all of
the monitor attributes). See the @{link MonitorManager} class documentation
for an example that demonstrates the use of the generic API for accessing
monitor data.
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a modify
* request that was forwarded to a backend server but did not complete
* successfully.
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyForwardFailedAccessLogMessage.java
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/*
This class provides a response control that may be used to provide the server ID of the Directory Server instance that processed the associated request. For search operations, each entry and reference returned will include the server ID of the server that provided that entry or reference. For all other types of operations, it will be in the \{@code LDAPResult\} (or appropriate subclass) returned for that operation.

\text{<BR>}
\text{<BLOCKQUOTE>}
\text{\textbf{NOTE:}} This class, and other classes within the \text{\{@code com.unboundid.ldap.sdk.unboundidds\}} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not
considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

This control has an OID of 1.3.6.1.4.1.30221.2.5.15 and a criticality of false. This control must have a value, which will simply be the string representation of the server ID of the associated server.

*/

Found in path(s):
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/GetServerIDResponseControl.java
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This class provides a data structure for holding a value included in the stream proxy values intermediate response. It contains the value, and the ID of the backend set with which the value is associated.

NOTE: This class, and other classes within the \{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

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This class defines an intermediate client request control, which can be used to provide a server with information about the client and any downstream clients that it may have. It can be used to help trace operations from the client to the directory server, potentially through any intermediate hops (like proxy servers) that may also support the intermediate client controls.

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This control is not based on any public standard. It was originally developed for use with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server. The value of this control uses the following encoding:

```plaintext
IntermediateClientRequest ::= SEQUENCE {
  downstreamRequest        [0] IntermediateClientRequest OPTIONAL,
  downstreamClientAddress  [1] OCTET STRING OPTIONAL,
  downstreamClientSecure   [2] BOOLEAN DEFAULT FALSE,
  clientIdentity           [3] authzId OPTIONAL,
  clientName               [4] OCTET STRING OPTIONAL,
  clientSessionID          [5] OCTET STRING OPTIONAL,
  clientRequestID          [6] OCTET STRING OPTIONAL,
  ... }
```

The following example demonstrates the use of the intermediate client controls to perform a search operation in the directory server. The request will be from an application named "my client" with a session ID of "session123" and a request ID of "request456":

```plaintext
... 
```
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
  *      SearchScope.SUB, Filter.createEqualityFilter("uid", "john.doe");
* searchRequest.addControl(new IntermediateClientRequestControl(null, null,
  *      null, null, "my client", "session123", "request456");
* SearchResult searchResult = connection.search(searchRequest);
*
* IntermediateClientResponseControl c =
*   IntermediateClientResponseControl.get(searchResult);
* if (c != null)
* {
*   // There was an intermediate client response control.
*   IntermediateClientResponseValue responseValue = c.getResponseValue();
* }
* </PRE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
* jar/com/unboundid/ldap/sdk/unboundidds/controls/IntermediateClientRequestControl.java
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This class provides a data structure that holds information about a log
message that may appear in the Directory Server access log about a modify DN
request that was forwarded to a backend server but did not complete
successfully.

<BR>
<BLOCKQUOTE>
  <B>NOTE:</B> This class, and other classes within the
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/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyDNForwardFailedAccessLogMessage.java
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*/
/**
* This class provides an implementation of the start batched transaction
* extended request. It may be used to begin a transaction that allows multiple
* write operations to be processed as a single atomic unit. The
* { @link StartBatchedTransactionExtendedResult } that is returned will include a
* a transaction ID. For each operation that is performed as part of the
* transaction, this transaction ID should be included in the corresponding
* request through the { @link BatchedTransactionSpecificationRequestControl }.
* Finally, after all requests for the transaction have been submitted to the
* server, the { @link EndBatchedTransactionExtendedRequest } should be used to
* commit that transaction, or it may also be used to abort the transaction if
* it is decided that it is no longer needed.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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* <BR>
* <BR>
* Transactions processed using this mechanism are called "batched transactions"
* because the associated requests are collected in the server and are only
* processed once the { @link EndBatchedTransactionExtendedRequest } has been
* received to indicate that the transaction should be committed. As a result,
* it is only possible to include write operations (in particular, add, delete,
* modify, modify DN, and password modify operations) in a batched transaction.
* Read operations (like search, bind, and compare) cannot be included in a
* batched transaction. However, it is possible to use some controls within the
*
transaction and they may prove to be sufficient in many cases. The controls that can be included in operations that are part of a batched transaction include:

- `<@link AccountUsableRequestControl>`
- `<@link com.unboundid.ldap.sdk.controls.AssertionRequestControl>`
- `<@link IntermediateClientRequestControl>`
- `<@link com.unboundid.ldap.sdk.controls.ManageDsaITRequestControl>`
- `<@link PasswordPolicyRequestControl>`
- `<@link com.unboundid.ldap.sdk.controls.PostReadRequestControl>`
- `<@link com.unboundid.ldap.sdk.controls.PreReadRequestControl>`
- `<@link SubtreeDeleteRequestControl>`

In particular, the assertion control may be used to ensure that an operation is only performed if the target entry matches a given filter (which allows for an atomic compare-and-swap operation), and the pre-read and post-read controls may be used to retrieve a copy of an entry immediately before or immediately after the operation was performed.

Note that even though the operations which are part of this transaction aren't actually processed until the end batched transaction request is received, the directory server will send back a response for each operation that is to be performed as part of the transaction. If the result of this response is `@ResultCode#SUCCESS`, then it means that the server has accepted the operation and it will be processed when the end batched transaction request is received indicating that the transaction should be committed. However, if it has some other result then it indicates that the request may have been malformed or did not meet the requirements for the transaction (e.g., it included a control that is not allowed for a transaction). Note that even if the server returns a non-success response for an operation prior to the end batched transaction request, the transaction will still be active in the server and other operations may still be included in the transaction if desired. If it is no longer desirable to process the transaction, then the end batched transaction request should be used to abort the transaction.

The following example demonstrates the process for using batched transactions. It will modify two different entries as a single atomic unit.

```java
// Use the start transaction extended operation to begin a transaction.
StartBatchedTransactionExtendedResult startTxnResult;
try {
    startTxnResult = (StartBatchedTransactionExtendedResult) connection.processExtendedOperation(
        new StartBatchedTransactionExtendedRequest());
```
* // This doesn't necessarily mean that the operation was successful, since
* // some kinds of extended operations return non-success results under
* // normal conditions.
* }
* catch (LDAPException le)
* {
*   // For an extended operation, this generally means that a problem was
*   // encountered while trying to send the request or read the result.
*   startTxnResult = new StartBatchedTransactionExtendedResult(
*       new ExtendedResult(le));
* }
* LDAPTestUtils.assertResultCodeEquals(startTxnResult, ResultCode.SUCCESS);
* ASN1OctetString txnID = startTxnResult.getTransactionID();
* *
* // At this point, we have a transaction available for use.  If any problem
* // arises, we want to ensure that the transaction is aborted, so create a
* // try block to process the operations and a finally block to commit or
* // abort the transaction.
* boolean commit = false;
* try
* {
*   // Create and process a modify operation to update a first entry as part
*   // of the transaction.  Make sure to include the transaction specification
*   // control in the request to indicate that it should be part of the
*   // transaction.
*   ModifyRequest firstModifyRequest = new ModifyRequest(
*       "cn=first,dc=example,dc=com",
*       new Modification(ModificationType.REPLACE, "description", "first");
*   firstModifyRequest.addControl(
*       new BatchedTransactionSpecificationRequestControl(txnID));
*   LDAPResult firstModifyResult;
*   try
*   {
*     firstModifyResult = connection.modify(firstModifyRequest);
*   }
*   catch (LDAPException le)
*   {
*     firstModifyResult = le.toLDAPResult();
*   }
*   LDAPTestUtils.assertResultCodeEquals(firstModifyResult,
*       ResultCode.SUCCESS);
* }
* // Perform a second modify operation as part of the transaction.
* ModifyRequest secondModifyRequest = new ModifyRequest(
*     "cn=second,dc=example,dc=com",
*     new Modification(ModificationType.REPLACE, "description", "second");
*   secondModifyRequest.addControl(
new BatchedTransactionSpecificationRequestControl(txnID));
LDAPResult secondModifyResult;
try {
  secondModifyResult = connection.modify(secondModifyRequest);
}
catch (LDAPException le) {
  secondModifyResult = le.toLDAPResult();
}
LDAPTestUtils.assertResultCodeEquals(secondModifyResult, ResultCode.SUCCESS);

// If we've gotten here, then all writes have been processed successfully
// and we can indicate that the transaction should be committed rather
// than aborted.
commit = true;
} finally {
  // Commit or abort the transaction.
  EndBatchedTransactionExtendedResult endTxnResult;
  try {
    endTxnResult = (EndBatchedTransactionExtendedResult)
      connection.processExtendedOperation(
        new EndBatchedTransactionExtendedRequest(txnID, commit));
  } catch (LDAPException le) {
    endTxnResult = new EndBatchedTransactionExtendedResult(
      new ExtendedResult(le));
  }
  LDAPTestUtils.assertResultCodeEquals(endTxnResult, ResultCode.SUCCESS);
} */
</PRE>

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/StartBatchedTransactionExtendedRequest.java
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/**
* Include the UnboundID-proprietary get authorization entry request control in all bind requests to indicate that the
* bind result should include the specified attributes from the entries for the authentication and authorization identities.
* This argument may be provided multiple times to specify multiple attributes to request.
*/
/**
* Include the UnboundID-proprietary operation purpose request control in all compare requests to provide
* information about the purpose for the operation.
*/
/**
* Include the UnboundID-proprietary get user resource limits request control in all bind requests to indicate that a
* successful bind result should include information about resource limits (e.g., size limit, time limit, idle time limit,
* etc.) that the server may impose for the user.
*/
/**
* Indicates that bind requests should include the Ping Identity-proprietary get authorization entry request control to
* retrieve the specified attribute from the authenticated user”s entry.  This argument may be provided multiple times to
* request that multiple attributes be returned.
/*
/**
* Indicates that delete requests sent through a Directory Proxy Server should include the Ping Identity-proprietary
get backend set ID request control to indicate that the response should include a control with the ID of the entry-
balancing backend set in which the delete was processed.
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary get server ID request control to indicate
that the response should include a control with the server ID of the Directory Server instance in which the delete was
processed.
*/
/**
* Indicates that bind requests should include the Ping Identity-proprietary get user resource limits request control to
retrieve information about the resource limits that the server will impose for the authenticated connection.
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary hard delete request control to indicate
that the target entries should be completely removed, even if they would have otherwise been processed as soft
deletes.
*/
/**
* Indicates that requests should include the Ping Identity-proprietary operation purpose request control to indicate
the intended purpose for the operations.
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary replication repair request control to
indicate that the delete operation should not be replicated.
*/
/**
* Indicates that search and delete requests should include the Ping Identity-proprietary route to backend set request
control to indicate that the Directory Proxy Server should forward those requests to servers in the specified entry-
balancing backend set. This control may be provided multiple times to specify multiple backend sets for the same or
different entry-balancing request processors.
*/
/**
* Indicates that search and delete requests should include the Ping Identity-proprietary route to server request
control to indicate that the Directory Proxy Server should forward those requests to the specified backend server.
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary soft delete request control to indicate
that the server should hide the entries rather than deleting them immediately. Soft-deleted may or may not be
completely removed after a period of time, based on the server configuration.
*/
/**
* Indicates that delete requests should include the Ping Identity-proprietary suppress referential integrity updates
request control so that the server will not perform any referential integrity processing for the delete operation.
*/
/**
*/
* Indicates that the tool should attempt to use the Ping Identity-proprietary start administrative session extended operation to create an administrative session that will cause all requests to be processed in a dedicated pool of worker threads. This may be useful when trying to diagnose or resolve an issue when all regular worker threads are busy processing other requests


* Indicates that delete requests should include the Ping Identity-proprietary assured replication request control to delay the response from the server until the change has been replicated to other servers. The --assuredReplicationLocalLevel, --assuredReplicationRemoteLevel, and --assuredReplicationTimeout arguments may also be used to customize the content of the request control.


* Indicates that all operation requests should include the UnboundID-proprietary assured replication request control to indicate that the server should delay returning a response to the client until a minimum amount of replication processing has been performed for the operation. The "--[0]", "--[1]", and "--[2]" arguments may be used to configure the settings to use for the assured replication control, but the server will automatically determine an appropriate value for any argument that is not provided.


* Indicates that all bind requests should include the UnboundID-proprietary get authorization entry request control to request that the server return the specified attribute (or collection of attributes, in the case of a special identifier like "*" to indicate all user attributes or "+" to indicate all operational attributes) from the authenticated user’s entry. This argument may be provided multiple times to specify multiple attributes to request.


* Indicates that all add, delete, modify, and modify DN requests should include the UnboundID-proprietary get backend set ID request control to request that the Directory Proxy Server include a corresponding get backend set ID response control in each operation response, indicating the entry-balancing backend set in which the write was processed.


* Indicates that all add, delete modify, and modify DN requests should include the UnboundID-proprietary get server ID request control to request that server include a corresponding get server ID response control in each operation response, indicating the server in which the write was processed.


* Indicates that all bind requests should include the UnboundID-proprietary get user resource limits request control to request that the server return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for the user.


* Indicates that all delete requests should include the UnboundID-proprietary hard delete request control, which will permanently delete the target entry even if the server would have otherwise performed a soft delete operation to hide the entry for a period of time before deleting it.


* Indicates that all add and modify requests should include the UnboundID-proprietary ignore NO-USER-MODIFICATION request control to permit setting values for certain operational attributes not normally permitted to
be provided by external clients.
*/
/**
 * Include the UnboundID-proprietary name with entryUUID request control in all add requests sent to the server to
indicate that the server should use the entryUUID operational attribute as the naming attribute for the resulting entry
instead of the provided RDN.
*/
/**
 * Indicates that all operations should include the UnboundID-proprietary operation purpose request control to
provide the specified reason for the operation.
*/
/**
 * Indicates that all add and modify requests that target either the "{0}" or "{1}" attribute should include the
UnboundID-proprietary password validation details request control to indicate that the response should include
information about the password quality requirements that the server will impose for the target user’s password and
whether the provided password satisfies each of those constraints.
*/
/**
 * Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-
proprietary purge current password request control. This will indicate that the server should purge the current
password from the entry (even if it would have otherwise been retired for a brief period of time).
*/
/**
 * Indicates that all operation requests should include the UnboundID-proprietary replication repair request control.
This will cause the change to be applied only to the target directory server instance but not to any other server in the
replication topology.
*/
/**
 * Indicates that any modify operation that targets either the "{0}" or "{1}" attribute should include the UnboundID-
proprietary retire current password request control. This will indicate that the server should continue to allow the
user to authenticate with their current password (in addition to the new password) for a brief period of time.
*/
/**
 * Indicates that all delete requests should include the UnboundID-proprietary soft delete request control, which
indicates that the server should hide the entry for a period of time before deleting it so that it may be restored with an
undelete operation if the delete should be reverted.
*/
/**
 * Indicates that all operations should include the UnboundID-proprietary suppress operational attribute updates
request control to indicate that the server should not apply any updates to the specified operational attributes. The
value may be one of "last-access-time", "last-login-time", "last-login-ip", or "lastmod".
*/
/**
 * Indicates that the tool should include the UnboundID-proprietary suppress referential integrity updates request
control in all delete and modify DN operations to indicate that the server should not perform any referential integrity
processing for those operations.
*/
* Indicates that all search requests should include the UnboundID-proprietary account usable request control to request that each search result entry returned include a response control with information about the password policy usability state for the entry.

/**
 * Indicates that all search requests should include the UnboundID-proprietary exclude branch request control to indicate that matching entries below the specified base DN should be excluded from search results. This argument may be provided multiple times if multiple branches should be excluded.
 */
/**
 * Indicates that all search requests should include the UnboundID-proprietary get backend set ID request control to request that the Directory Proxy Server include a corresponding get backend set ID response control in each search result entry, indicating the entry-balancing backend set from which that entry was retrieved.
 */
/**
 * Indicates that all search requests should include the UnboundID-proprietary get effective rights request control to return information about the access control rights that a user has when interacting with each matching entry. This argument may be provided multiple times to specify multiple attributes.
 */
/**
 * Indicates that all search requests should include the UnboundID-proprietary get effective rights request control to return information about the access control rights the specified user has when interacting with each matching entry.
 */
/**
 * Indicates that all search requests should include the UnboundID-proprietary get server ID request control to request that server include a corresponding get server ID response control in each search result entry, indicating the server from which that entry was retrieved.
 */
/**
 * Indicates that all search requests should include the UnboundID-proprietary return conflict entries request control to indicate that the server may return any replication conflict entries that match the search criteria. Replication conflict entries are normally excluded from search results.
 */
/**
 * Indicates that all search requests should include the UnboundID-proprietary soft-deleted entry access request control to indicate that the server may return any soft-deleted entries that match the search criteria. Soft-deleted entries are normally excluded from search results. The value for this argument must be one of: "with-non-deleted-entries" (indicates that both regular and soft-deleted entries should be returned), "without-non-deleted-entries" (indicates that only soft-deleted entries should be returned), or "deleted-entries-in-undeleted-form" (returns only soft-deleted entries in the form in the form the entries had before they were deleted).
 */
/**
 * Indicates that all search requests should include the UnboundID-proprietary matching entry count request control, which indicates that the server should return information about the number of entries that match the search criteria. The maximum number of entries to examine must be specified, which helps indicate whether an exact count or an estimate will be returned. If alwaysExamine is specified and the number of candidates is less than the examine count, then each candidate will be examined to verify that it matches the criteria and would actually be returned to the client in a search. If allowUnindexed is specified, then the count will be allowed to be processed even if the
search is unindexed (and may take a very long time to complete). If extended is specified, then the client will
request extended response data from the server. If debug is specified, then additional debug information may be
included in the output.

* /
/**
 * Indicates that all search requests should include the UnboundID-proprietary operation purpose request control
to provide the specified reason for the operation.
 * /
/**
 * Indicates that all search requests should include the UnboundID-proprietary permit unindexed search request
control to indicate that the server should process the search operation even if it cannot do so efficiently using server
indexes. The requester must have either the unindexed-search or unindexed-search-with-control privilege.
 * /
/**
 * Indicates that all search requests should include the UnboundID-proprietary real attributes only request control
to indicate that the server should not include any virtual attributes in entries that are returned.
 * /
/**
 * Indicates that all search requests should include the UnboundID-proprietary reject unindexed search request
control to indicate that the server should not process the search operation if it cannot do so efficiently using server
indexes, even if the requester has the unindexed-search privilege.
 * /
/**
 * Indicates that all search requests should include the UnboundID-proprietary virtual attributes only request control
to indicate that the server should only include virtual attributes in entries that are returned.
 * /
/**
 * Include the proprietary undelete request control in all add requests that include the "ds-undelete-from-dn"
attribute. This control indicates that the server should un-delete the target soft-deleted entry rather than creating a
new entry. The server must be configured to allow soft delete operations, and the requester must have the soft-
delete-read privilege.
 * /
/**
 * Include the proprietary hard delete request control in all delete requests. This control indicates that the server
should completely remove the target entry, even if it would have otherwise automatically processed the operation as
a soft delete.
 * /
/**
 * Include the proprietary ignore NO-USER-MODIFICATION request control in all add and modify requests. This
control indicates that the server should not reject requests in which the client attempts to set values for attribute
types declared with the NO-USER-MODIFICATION constraint in the schema. This control primarily applies to
add operations, but the server can be configured to allow it for a limited set of attributes in modify operation.
 * /
/**
 * Include the proprietary name with entryUUID request control in all add requests. This control indicates that the
server should use entryUUID as the naming attribute for the entry, rather than the RDN included in the add request.
 * /
* Include the proprietary operation purpose request control in all requests. This control provides a human-readable reason for the associated operation.

* /
*/

/**
 * Include the proprietary password update behavior request control in all add and modify requests. This control may be used to customize the server’s treatment of any passwords contained in the request. Values for this argument must be provided in the form "name=value", where the property can be any of the following: is-self-change, allow-pre-encoded-password, skip-password-validation, ignore-password-history, ignore-minimum-password-age, password-storage-scheme, and must-change-password. The value for the password-storage-scheme property should be the name of the desired scheme, and the value for all other properties should be either "true" or "false". This argument can be provided multiple times to specify multiple password update behaviors.
 */
/**
 * Include the proprietary soft delete request control in all delete requests. This control indicates that the server should hide the target entry for a period of time before actually removing it so that it may be restored with an undelete operation if the delete should be reverted.
 */
/**
 * Include the proprietary suppress operational attribute update request control in all add, bind, delete, modify, and modify DN requests. This control indicates that the server should not update the specified operational attribute in the course of processing the operation. The value may be one of "last-access-time", "last-login-time", "last-login-ip", or "lastmod". This argument may be provided multiple times to suppress updates to multiple operational attributes.
 */
/**
 * Include the proprietary suppress referential integrity updates request control in all delete and modify DN requests. This control indicates that the server should not perform any referential integrity processing for the associated operation.
 */
/**
 * Include the proprietary assured replication request control in all add, delete, modify, and modify DN requests. This control indicates that the server should wait for confirmation that the change has been replicated to a minimum degree of assurance before returning the response to the client.
 */
/**
 * Include the proprietary replication repair request control in all add, delete, modify, and modify DN requests. This control indicates that the requested operation should only be processed in the server instance that originally received the change, and it should not be replicated to other servers in the topology. This should generally only be used under the direction of support personnel.
 */
/**
 * Include the UnboundID-proprietary assured replication request control to indicate that the update response should be delayed until the change has been sufficiently replicated to other servers.
 */
/**
 * Include the UnboundID-proprietary get authorization entry request control in the bind request to indicate that the bind response should include the entry for the authenticated user with the specified attribute. This argument may be provided multiple times to specify that multiple attributes from the user entry should be included.
 */
/**
 * Include the UnboundID-proprietary get password validation details request control in the request used to update
 * the password. The corresponding response control will include information about the requirements that the server
 * will impose for the target user and whether the provided new password satisfies each of those constraints.
 */
/**
 * Include the UnboundID-proprietary get user resource limits request control in the bind request to indicate that the
 * server should return information about resource limits (e.g., size limit, time limit, idle time limit, etc.) imposed for
 * the user.
 */
/**
 * Include the UnboundID-proprietary operation purpose request control in the request sent to update the target
 * user’s password to provide additional information about the purpose for the request.
 */
/**
 * Include the UnboundID-proprietary password update behavior request control in the request used to update the
 * password to specify settings that the server should use when updating the password. Values of this argument must
 * be in the form "name=value", where the property name can be any one of the following: is-self-change, allow-pre-
 * encoded-password, skip-password-validation, ignore-password-history, ignore-minimum-password-age, password-
 * storage-scheme, and must-change-password. The value for each property should be either "true" or "false", with the
 * exception of the storage-scheme property, whose value should be the name of the desired password storage scheme
 * to use to encode the new password. This argument can be provided multiple times to specify multiple password
 * update behaviors.
 */
/**
 * Indicate the UnboundID-proprietary purge password request control in the request used to update the password.
 * This will indicate that the server should completely remove the former password from the user’s entry, even if the
 * server would have otherwise retired the former password for a brief period of time.
 */
/**
 * Include the UnboundID-proprietary retire password request control in the request used to update the password.
 * This will indicate that the server should continue to allow the user to authenticate with their former password (in
 * addition to the new password) for a brief period of time.
 */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/ToolMessages.java
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  */opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/ssl/cert/X509PEMFileReader.java
  */opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/DNEscapingStrategy.java
  */opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/ssl/cert/PKCS8PEMFileReader.java
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  */opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/async/DSASignatureThreadPool.java

jar/com/unboundid/util/ssl/PEMFileTrustManager.java

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*/
/** *
* This class implements a thread that may be used to process operations in
* a directory server. It will have its own connection to the Directory Server
* and will loop, reading and applying changes until no more are available.
* <BR>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 server products. These classes provide support
for proprietary functionality or for external specifications that are not
considered stable or mature enough to be guaranteed to work in an
interoperable way with other types of LDAP servers.
</BLOCKQUOTE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/tools/ParallelUpdateOperationThread.java
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*/

/**
* This class provides a { @link ReplaceCertificateTrustBehavior} implementation
* to indicate that the listener certificate should be trusted by the JVM's
* default trust manager.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 server products. These classes provide support
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* </BLOCKQUOTE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/JVMDefaultReplaceCertificateTrustBehavior.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a
* connection that has been closed.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   for proprietary functionality or for external specifications that are not
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* </BLOCKQUOTE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/logs/DisconnectAccessLogMessage.java
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This enum defines the set of validation level values that may be used in
conjunction with the [@link UniquenessRequestControl].

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/jopt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/UniquenessValidationLevel.java

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*/

/**

This class provides a {@link ReplaceCertificateTrustBehavior} implementation
to indicate that the server should update a specified trust manager provider.

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 */
/**
 * This class provides an implementation of the name with entryUUID request
 * control. It may be included in an add request to indicate that the server
 * should replace the provided RDN with the server-generated entryUUID value.
 * It will also cause the server to include a
 */
{@link com.unboundid.ldap.sdk.controls.PostReadResponseControl} in
* the add result to make the generated DN available to the client. If the
* request already includes a
* {@link com.unboundid.ldap.sdk.controls.PostReadRequestControl}, then the
* attributes included in the post-read response control will be generated from
* that request control. Otherwise, the server will behave as if the request
* had included a post-read request control requesting only the entryUUID
* attribute.
* <BR>
* <BLOCKQUOTE>
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* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* This control has an OID of "1.3.6.1.4.1.30221.2.5.44".  It is recommended
* that it be used with a criticality of { @code true }.  It does not take a
* value.
*/

Found in path(s):
"/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/controls/NameWithEntryUUIDRequestControl.java"

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This enum defines a set of error types that may be included in the password policy response control as defined in draft-behera-ldap-password-policy.

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordPolicyErrorType.java

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*/
/**
**
* This class provides an implementation of an extended result that can be used
* to provide information about the processing for a
* MultiUpdateRequest.  The OID for this result is
* 1.3.6.1.4.1.30221.2.6.18, and the value (if present) should have the
* following encoding:
* <PRE>
* MultiUpdateResultValue ::= SEQUENCE {
*     changesApplied     ENUMERATED {
*         none        (0),
*         all         (1),
*         partial     (2),
*         ... },
*     responses     SEQUENCE OF SEQUENCE {
*         responseOp     CHOICE {
*             modifyResponse     ModifyResponse,
*             addResponse        AddResponse,
*             delResponse        DelResponse,
*             modDNResponse      ModifyDNResponse,
*             extendedResp     ExtendedResponse,
*         }
*     }
* }
**/
* * *
* controls [0] Controls OPTIONAL,*
* ...
* }
*/

Found in path(s):
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/MultiUpdateExtendedResult.java

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Open Source Used In cnBR Operations Hub 22.2 18042
* This class provides a [@link ReplaceCertificateKeyStoreContent] implementation to indicate that the server should use a certificate key store whose content (that is, the bytes that comprise the key store file) is provided directly in the extended request.

* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the <code>com.unboundid.ldap.sdk.unboundidds</code> package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/KeyStoreDataReplaceCertificateKeyStoreContent.java

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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This enum defines the options that may be specified for the transaction
* commit durability when using the transaction settings request control.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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*
* @see TransactionSettingsRequestControl
*/

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  jar/com/unboundid/ldap/sdk/unboundidds/controls/TransactionSettingsCommitDurability.java
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This class provides an implementation of the stream directory values extended request as used in the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server. It may be used to obtain all entry DNs and/or all values for one or more attributes for a specified portion of the DIT.

This extended request has an OID of "1.3.6.1.4.1.30221.2.6.6" and the value is encoded as follows:

```plaintext
StreamDirectoryValuesRequest ::= SEQUENCE {
    baseDN [0] LDAPDN,
    includeDNs [1] DNSelection OPTIONAL,
    attributes [2] SEQUENCE OF LDAPString OPTIONAL,
    valuesPerResponse [3] INTEGER (1 .. 32767) OPTIONAL,
    ...
}
```

```plaintext
DNSelection ::= SEQUENCE {
    scope [0] ENUMERATED {
        ...}
    }
```
* baseObject (0),
* singleLevel (1),
* wholeSubtree (2),
* subordinateSubtree (3),
* ... ]
* relative [1] BOOLEAN DEFAULT TRUE,
* ..... ]
* </PRE>
*/

Found in path(s):
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/StreamDirectoryValuesExtendedRequest.java
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*/
/*
**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of an abandon operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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  jar/com/unboundid/ldap/sdk/unboundidds/logs/AbandonResultAccessLogMessage.java

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*/
/**
* This class provides an implementation of the UNBOUNDID-TOTP SASL bind request
* that contains a point-in-time version of the one-time password and can be
* used for a single bind but is not suitable for repeated use. This version of
* the bind request should be used for authentication in which the one-time
* password is provided by an external source rather than being generated by
* the LDAP SDK.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Because the one-time password is provided rather than generated, this version
* of the bind request is not suitable for cases in which the authentication
* process may need to be repeated (e.g., for use in a connection pool,
* following referrals, or if the auto-reconnect feature is enabled), then the
* reusable variant (supported by the {@link ReusableTOTPBindRequest} class)
* which generates the one-time password should be used instead.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/SingleUseTOTPBindRequest.java
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*/
/**
* This class provides an implementation of an extended result that may be used
* to provide the client with a TOTP shared secret generated by the server in
* response to a { @link GenerateTOTPSharedSecretExtendedRequest}.  
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* <BR>
* If the extended request was processed successfully, then this result will
* have an OID of 1.3.6.1.4.1.30221.2.6.57 and a value with the following
* encoding:
* <BR>
* <PRE>
* GenerateTOTPSharedSecretResult ::= SEQUENCE {
*     totpSharedSecret  [0] OCTET STRING }
* ... }
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/GenerateTOTPSharedSecretExtendedResult.java
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an extended
* request received from a client.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
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*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/logs/ExtendedRequestAccessLogMessage.java
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/* */

/**
 * This class implements a data structure for storing the information from an extended result for the get connection ID extended request. It is able to decode a generic extended result to obtain the associated connection ID.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the @code com.unboundid.ldap.sdk.unboundidds} package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * This extended result does not have an OID. If the request was processed successfully by the server, then the response should have a value that is the BER-encoded integer representation of the connection ID.
 */

Found in path(s):
  */opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetConnectionIDExtendedResult.java
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This enum defines the options that may be specified to indicate whether and
when to acquire an exclusive lock in the target backend when processing a
transaction.

@see TransactionSettingsRequestControl

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/TransactionSettingsBackendLockBehavior.java

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*/
/**
* This class provides an implementation of the end batched transaction extended
* request. It may be used to either commit or abort a transaction that was
* created using the start batched transaction request. See the documentation
* for the {@link StartBatchedTransactionExtendedRequest} for an example of
* processing a batched transaction.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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Found in path(s):
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 */
/**
 * This class provides an implementation of an extended result that can be used
 * to identify potential incompatibility problems between two backup
 * compatibility descriptor values.
 * <BR>
 * <BLOCKQUOTE>
 * <B>NOTE:</B>  This class, and other classes within the
 * @code com.unboundid.ldap.sdk.unboundidds@code package structure, are only
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 */
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interoperable way with other types of LDAP servers.

The OID for this extended result is 1.3.6.1.4.1.30221.2.6.33. If the request
was processed successfully, then the response will have a value with the
following encoding:

```plaintext
IdentifyBackupCompatibilityProblemsResult ::= SEQUENCE {
  errorMessages   [0] SEQUENCE OF OCTET STRING OPTIONAL,
  warningMessages [1] SEQUENCE OF OCTET STRING OPTIONAL,
  ... }
```

@see IdentifyBackupCompatibilityProblemsExtendedRequest
@see GetBackupCompatibilityDescriptorExtendedRequest

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/IdentifyBackupCompatibilityProblemsExtendedResult.java
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* /
/**
* This class provides an implementation of a changelog batch starting point
* which may be used to start a batch of changes at a specified time. The first
* change of the batch will be the first change on any server with a change time
* greater than or equal to the specified time.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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* Found in path(s):
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This class provides support for an UnboundID-proprietary SASL mechanism that
provides multifactor authentication using the combination of a client
certificate (presented during SSL/TLS negotiation) and a static password.

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The name for this SASL mechanism is "UNBOUNDID-CERTIFICATE-PLUS-PASSWORD". The SASL credentials consist simply of the static password for the user
identified by the certificate, to make the SASL mechanism as easy as possible
to use from other client APIs.
This class provides an implementation of an extended result that may be used
* to provide information about which one-time password delivery mechanisms are
* supported for a user.

* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* for proprietary functionality or for external specifications that are not
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* </BLOCKQUOTE>
* <BR>
If the request was processed successfully, then the extended result will have
an OID of 1.3.6.1.4.1.30221.2.6.48 and a value with the following encoding:

```
   GetSupportedOTPDeliveryMechanismsResult ::= SEQUENCE OF SEQUENCE {
      deliveryMechanism     [0] OCTET STRING,
      isSupported           [1] BOOLEAN OPTIONAL,
      recipientID           [2] OCTET STRING OPTIONAL,
      ... }
```

@see GetSupportedOTPDeliveryMechanismsExtendedRequest

Found in path(s):

```
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetSupportedOTPDeliveryMechanismsExtendedResult.java
```

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/* This class provides a utility that uses the stream directory values extended operation in order to obtain a listing of all entry DNs below a specified base DN in the Directory Server. */

/* <BLOCKQUOTE> 
   <B>NOTE:</B> This class, and other classes within the 
   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only 
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   for proprietary functionality or for external specifications that are not 
   considered stable or mature enough to be guaranteed to work in an 
   interoperable way with other types of LDAP servers. 
</BLOCKQUOTE> */

/* The APIs demonstrated by this example include: */

/* <UL> 
   <LI>The use of the stream directory values extended operation.</LI> 
   <LI>Intermediate response processing.</LI> 
   <LI>The LDAP command-line tool API.</LI> 
   <LI>Argument parsing.</LI> 
</UL> */

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/**
* This class provides an implementation of an extended result that holds
* information about the response returned from a
* [GetSubtreeAccessibilityExtendedRequest].
* <BR>
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*   <B>NOTE:</B> This class, and other classes within the
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* It has an OID of 1.3.6.1.4.1.30221.1.6.21, and successful responses will have
* a value with the following encoding:
* <BR>
* <PRE>
* GetSubtreeAccessibilityResultValue ::= SEQUENCE OF SEQUENCE {
*   subtreeBaseDN          [0] LDAPDN,
*   subtreeAccessibility   [1] ENUMERATED {
*     accessible           (0),
*     read-only-bind-allowed (1),
*     read-only-bind-denied (2),
*     hidden               (3),
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  /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetSubtreeAccessibilityExtendedResult.java
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 */
This class defines a Directory Server task that can be used to identify files in a specified directory that match a given pattern, and delete any of those files that are outside of a provided set of retention criteria.

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The files to examine are identified by a combination of three items:

- A target directory. This is simply the path to the directory that contains the files to examine.
- A filename pattern. This is a string that will be used to identify the files of interest in the target directory. The pattern may contain zero or more (non-consecutive) asterisks to use as wildcards that match zero or more characters, and it may contain at most one occurrence of the token "${timestamp}" (without the quotation marks) that is a placeholder for a timestamp that indicates when the file was written or the age of the data in that file. For example, the filename pattern "*.${timestamp}.log" will match any file in the target directory that ends with a dash, a timestamp, and an extension of ".log".
- A timestamp format. This specifies the format that will be used for the value that matches the "${timestamp}" token in the filename pattern. See the [FileRetentionTaskTimestampFormat] enum for the set of defined timestamp formats.

The types of retention criteria include:

- A retain count, which specifies the minimum number of files to retain. For example, if there is a retain count of five, and the target directory contains ten files that match the filename pattern, the task will always keep at least the five most recent files, while the five oldest files will be candidates for removal.
- A retain age, which specifies the minimum age of the files to retain. If the filename pattern includes a timestamp, then the age of the file will be determined using that timestamp. If the filename pattern does not contain a timestamp, then the age of the file will be determined from the file's create time attribute (if available) or last modified time. The task will always keep all files whose age is less than or equal to the retain age, while files older than the retain age will be candidates for removal.
An aggregate retain size, which specifies combined minimum amount of
disk space that should be consumed by the files that should be
retained. For example, if the task is configured with an aggregate
retain size of 500 megabytes and the files to examine are all 75
megabytes each, then the task will keep at least the seven most recent
files (because 500/75 = 6.7, and the task will always round up to the
next whole number), and any older files in the same directory that
match the pattern will be candidates for removal.

The task must be configured with at least one of the three types of retention
criteria, but it may combine any two or all three of them. If a task is
configured with multiple types of retention criteria, then a file will only
be a candidate for removal if it is outside of all of the retention criteria.
For example, if the task is configured with a retain count of 5 and a retain
age of 1 week, then the task may retain more than five files if there are
more than five files that are less than a week old, and it may retain files
that are more than a week old if there are fewer than five files within that
age.

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*/

/**
 * This class provides an implementation of the stream directory values
 * intermediate response, which may be used to provide a partial or complete
 * list of the values for a specified attribute, or DNs of entries contained in
 * a specified portion of the server DIT.
 * <BR>
 * <BLOCKQUOTE>
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 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * This intermediate response has an OID
 * of "1.3.6.1.4.1.30221.2.6.7" and the value is encoded as follows:
 * <PRE>
 *   StreamDirectoryValuesIntermediateResponse ::= SEQUENCE {
 *      attributeName         [0] LDAPString OPTIONAL,
 *      result                [1] ENUMERATED {
 *          allValuesReturned       (0),
 *          moreValuesToReturn      (1),
 *          attributeNotIndexed     (2),
 *          processingError         (3),
 *          ... },
 *      diagnosticMessage     [2] OCTET STRING OPTIONAL,
 *      values                [3] SET OF OCTET STRING OPTIONAL,
 *      ... }
 * </PRE>
 */

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 */
/**
 * This class provides an implementation of the batched transaction
 * specification request control, which may be used to indicate that the
 * associated add, delete, modify, modify DN, or password modify operation is
 * part of a batched transaction. The transaction should be created with the
 * start batched transaction extended operation, which will obtain a transaction
 * ID, and the transaction may be committed or aborted using the end batched
 * transaction extended operation.
 */
<BR>
<BLOCKQUOTE>
NOTE: This class, and other classes within the
[code com.unboundid.ldap.sdk.unboundidds] package structure, are only
supported for use against Ping Identity, UnboundID, and
Nokia/Alcatel-Lucent 8661 server products. These classes provide support
for proprietary functionality or for external specifications that are not
considered stable or mature enough to be guaranteed to work in an
interoperable way with other types of LDAP servers.

Note that directory servers may limit the set of controls that are available
for use in requests that are part of a transaction. RFC 5805 section 4
indicates that the following controls may be used in conjunction with the
transaction specification request control: [AssertionRequestControl],
[ManageDsaITRequestControl], [PreReadRequestControl], and
[PostReadRequestControl]. The
[ProxiedAuthorizationV1RequestControl] and
[ProxiedAuthorizationV2RequestControl] controls cannot be included in
requests that are part of a transaction, but you can include them in the
StartBatchedTransactionExtendedRequest to indicate that all
operations within the transaction should be processed with the specified
authorization identity.

The Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products
support the following additional UnboundID-specific controls in conjunction
with operations included in a transaction:
[AccountUsableRequestControl], [HardDeleteRequestControl],
[IntermediateClientRequestControl],
[PasswordPolicyRequestControl],
[ReplicationRepairRequestControl], [SoftDeleteRequestControl],
[SoftDeletedEntryAccessRequestControl],
[SubtreeDeleteRequestControl], and [UndeleteRequestControl].

See the documentation for the [StartBatchedTransactionExtendedRequest]
class for an example of processing a batched transaction.

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This class provides a data structure that holds a set of properties for use in conjunction with the [@link UniquenessRequestControl].

* The control must be created with either a set of attribute types or a filter (or both). See the [@link UniquenessRequestControl] class-level documentation for details about how the server will behave if either or both of these values are provided.

* The following default values will be used for properties that are not
<ul>
  <li>An empty set of attribute types.</li>
  <li>A multiple attribute behavior of
      <ul>
        <li>{@link UniquenessMultipleAttributeBehavior#UNIQUE_WITHIN_EACH_ATTRIBUTE}</li>
      </ul></li>
  <li>No base DN.</li>
  <li>No filter.</li>
  <li>The control will not prevent conflicts with soft-deleted entries.</li>
  <li>A pre-commit validation level of
      <ul>
        <li>{@link UniquenessValidationLevel#ALL_SUBTREE_VIEWS}</li>
      </ul></li>
  <li>A post-commit validation level of
      <ul>
        <li>{@link UniquenessValidationLevel#ALL_SUBTREE_VIEWS}</li>
      </ul></li>
  <li>Do alert on conflicts detected during post-commit validation.</li>
  <li>Do not create a conflict prevention details entry.</li>
</ul>

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This class defines a Directory Server task that can be used to cause the server to generate administrative alerts, or to manage the set of degraded or unavailable alert types.

The properties that are available for use with this type of task include:

- `<UL>`
- `<LI>` The alert type of the alert notification to generate. If this is provided, then an alert message must also be provided.</LI>
- `<LI>` The alert message for the alert notification to generate. If this is provided, then an alert type must also be provided.</LI>`
* The names of the alert types to add to the set of degraded alert types
* in the general monitor entry.</LI>
* The names of the alert types to remove from the set of degraded alert
* types in the general monitor entry.</LI>
* The names of the alert types to add to the set of unavailable alert
* types in the general monitor entry.</LI>
* The names of the alert types to remove from the set of unavailable
* alert types in the general monitor entry.</LI>
* </UL>
*/
*/

Found in path(s):
*/
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/tasks/AlertTask.java
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* This package contains a set of tools primarily intended for interacting with
* Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products.
* <BR>
* <BLOCKQUOTE>
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*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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* </BLOCKQUOTE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tools/package-info.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/Validator.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldif/LDIFDeleteChangeRecord.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/Entry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/LDAPConnectionPool.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/LDAPConnectionOptions.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/ReadOnlyAddRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/ChangeLogEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/ldap/extensions/package-info.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/ldap/extensions/StartTLSExtendedRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/asn1/ASN1Null.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/ldap/controls/PersistentSearchChangeType.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/ldap/controls/PostReadRequestControl.java

* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/schema/Schema.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/PostReadResponseControl.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/EXTERNALBindRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/schema/SchemaElement.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/SortKey.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/experimental/DraftBeheraLDAPPasswordPolicy10WarningType.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/EntrySorter.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/LDAPSearchException.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/PersistentSearchRequestControl.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/Idf/LDIFAddChangeRecord.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/LDAPURL.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/util/package-info.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/ModifyDNRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/ModifyRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/PLAINBindRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/SearchResult.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/ReferralConnector.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/schema/ObjectClassType.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/RDN.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/VirtualListViewRequestControl.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/ExtendedRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/VirtualListViewResponseControl.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/extensions/WhoAmIExtendedResult.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/CRAMMD5BindRequest.java
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 */

/**
 * This class provides an implementation of a JSON object filter that can be
 * used to identify JSON objects that have at least one value for a specified
 * field that is greater than a given value.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
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 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 */

```
The fields that are required to be included in a "greater than" filter are:

- `@code field` -- A field path specifier for the JSON field for which to make the determination. This may be either a single string or an array of strings as described in the "Targeting Fields in JSON Objects" section of the class-level documentation for `@link JSONObjectFilter`.

- `@code value` -- The value to use in the matching. It must be either a string (which will be compared against other strings using lexicographic comparison) or a number.

The fields that may optionally be included in a "greater than" filter are:

- `@code allowEquals` -- Indicates whether to match JSON objects that have a value for the specified field that matches the provided value. If present, this field must have a Boolean value of either `@code true` (to indicate that it should be a "greater-than or equal to" filter) or `@code false` (to indicate that it should be a strict "greater-than" filter). If this is not specified, then the default behavior will be to perform a strict "greater-than" evaluation.

- `@code matchAllElements` -- Indicates whether all elements of an array must be greater than (or possibly equal to) the specified value. If present, this field must have a Boolean value of `@code true` (to indicate that all elements of the array must match the criteria for this filter) or `@code false` (to indicate that at least one element of the array must match the criteria for this filter). If this is not specified, then the default behavior will be to require only at least one matching element. This field will be ignored for JSON objects in which the specified field has a value that is not an array.

- `@code caseSensitive` -- Indicates whether string values should be treated in a case-sensitive manner. If present, this field must have a Boolean value of either `@code true` or `@code false`. If it is not provided, then a default value of `@code false` will be assumed so that strings are treated in a case-insensitive manner.

**Example**

The following is an example of a "greater than" filter that will match any
* JSON object with a top-level field named "salary" with a value that is
* greater than or equal to 50000:
* <PRE>
* { "filterType" : "greaterThan",
*   "field" : "salary",
*   "value" : 50000,
*   "allowEquals" : true }
* </PRE>
* The above filter can be created with the code:
* <PRE>
* GreaterThanJSONObjectFilter filter =
*     new GreaterThanJSONObjectFilter("salary", 50000);
* filter.setAllowEquals(true);
* </PRE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/GreaterThanJSONObjectFilter.java
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This enum contains the set of possible attribute-level rights that may be
described for an attribute in an entry retrieved with the get effective
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 */
/**
 * This class provides a data structure with information about a one-time
 * password delivery mechanism that is supported by the Directory Server and may
 * or may not be supported for a particular user.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/SupportedOTPDeliveryMechanismInfo.java
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This class provides an implementation of an extended request that can be used
to trigger the delivery of a temporary one-time password reset token to a
specified user. This token can be provided to the password modify extended
request in lieu of the current password for the purpose of performing a self
change and setting a new password. This token cannot be used to authenticate
to the server in any other way, and it can only be used once. The token will
expire after a short period of time, and any attempt to use it after its
expiration will fail. In addition, because this token is only intended for
use in the event that the current password cannot be used (e.g., because it
has been forgotten or the account is locked), a successful bind with the
current password will cause the server to invalidate any password reset token
for that user.

<BR>

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for proprietary functionality or for external specifications that are not
considered stable or mature enough to be guaranteed to work in an
interoperable way with other types of LDAP servers.

</BLOCKQUOTE>

<BR>
* The server will use the same mechanisms for delivering password reset tokens as it uses for delivering one-time passwords via the \[@link DeliverOneTimePasswordExtendedRequest\]. See the \* ds-supported-otp-delivery-mechanism attribute in the root DSE for a list of * the one-time password delivery mechanisms that are configured for use in the * server.

* This extended request is expected to be used to help applications provide a secure, automated password reset feature. In the event that a user has forgotten his/her password, has allowed the password to expire, or has allowed the account to become locked, the application can collect a sufficient set of information to identify the user and request that the server generate and deliver the password reset token to the end user.

* The OID for this extended request is 1.3.6.1.4.1.30221.2.6.45. It must have * a value with the following encoding:

```plaintext
DeliverPasswordResetTokenRequestValue ::= SEQUENCE {
  userDN                         LDAPDN,
  messageSubject                 [0] OCTET STRING OPTIONAL,
  fullTextBeforeToken           [1] OCTET STRING OPTIONAL,
  fullTextAfterToken            [2] OCTET STRING OPTIONAL,
  compactTextBeforeToken        [3] OCTET STRING OPTIONAL,
  compactTextAfterToken         [4] OCTET STRING OPTIONAL,
  preferredDeliveryMechanism    [5] SEQUENCE OF SEQUENCE {
    mechanismName     OCTET STRING,
    recipientID       OCTET STRING OPTIONAL },
  ... }
```

@see  DeliverPasswordResetTokenExtendedResult

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeliverPasswordResetTokenExtendedRequest.java

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*/
This class defines a monitor entry that provides information about the state of a FIFO entry cache in the Directory Server.

The information that may be available about the entry cache includes:

- The name assigned to the cache.
- The number of attempts (successful and total) and the hit ratio when trying to retrieve an entry from the cache.
- The maximum allowed size of the entry cache in entries and bytes.
- The number of entries currently held in the cache.
- The number of entries added to or updated in the cache.
- The number of times an entry was not added to the cache because it was
* already present.</LI>
* <LI>The number of times an entry was not added to the cache because it did
* not match filter criteria required for inclusion.</LI>
* <LI>The number of times an entry was not added to the cache because it was
* too small to be included.</LI>
* <LI>The number of times an entry was evicted because of memory pressure or
* to make room for new entries.</LI>
* <LI>Information about the current memory consumption of the cache and
* whether the cache is currently full.</LI>
* </UL>
* The server will automatically present one monitor entry for every FIFO entry
* cache defined in the server. It is possible to have multiple caches enabled
* if desired (e.g., one specifically targeting large static groups, and another
* small cache to help improve write-after-read performance). FIFO entry cache
* monitor entries can be retrieved using the
* {@link MonitorManager#getFIFOEntryCacheMonitorEntries} method. These monitor
* entries provide specific methods for accessing information about the FIFO
* entry cache. Alternately, this information may be accessed using the generic
* API. See the [@link MonitorManager] class documentation for an example that
* demonstrates the use of the generic API for accessing monitor data.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
* jar/com/unboundid/ldap/sdk/unboundidds/monitors/FIFOEntryCacheMonitorEntry.java

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/**
 * This class provides a data structure with information about recent successful
 * and failed login attempts for a user.
 * @see GetRecentLoginHistoryRequestControl
 * @see GetRecentLoginHistoryResponseControl
*/

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*/

/**
 * This class provides a comparator that may be used to define a relative order
 * for search filters. The filter order will be based first on the filter type
 * (in the following order: AND, OR, NOT, equality, substring,
 * greater-or-equal, less-or-equal, presence, approximate match, extensible
 * match), then based on the attribute name, and then by the assertion value.
 * For AND and OR filters, with all other things equal, a filter with fewer
 * components will be ordered before one with more components. For a substring
 * filter with all other things equal, then a filter missing a substring element
 * will be ordered before one with that element, and one with fewer subAny
 * elements will be ordered before one with more subAny elements. For an
 * extensible match filter with all other things being equal, a filter without
 * an element will be ordered before one with that element.
 * <BR>
 * <BLOCKQUOTE>
 * <B>NOTE:</B> This class, and other classes within the
 * { @code com.unboundid.ldap.sdk.unboundidds } package structure, are only
 * supported for use against Ping Identity, UnboundID, and
 * Nokia/Alcatel-Lucent 8661 server products. These classes provide support
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 * along with this program; if not, see <http://www.gnu.org/licenses>.
 */

/**
 * This class provides a thread that may be used to parallelize the process of
 * invoking password policy state operations.
 * <BR>
 * <BLOCKQUOTE>
 * <B>NOTE:</B> This class, and other classes within the
 * {com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccountProcessorThread.java
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 */
/**
* This class provides a mechanism that can be used to encrypt and decrypt
* passwords using the same mechanism that the Ping Identity Directory Server
* uses for the AES256 password storage scheme (for clients that know the
* passphrase used to generate the encryption key).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* Note that this class requires strong encryption support in the underlying
* JVM. For Java 7 JVMs, and for Java 8 JVMs prior to update 161, this requires
* installing unlimited strength jurisdiction policy files in the JVM. For Java
* 8 JVMs starting with update 161, and for all later Java versions, strong
* encryption should be available by default.
* <BR>
* The raw representation for encoded passwords is constructed as follows:
* <OL>
*   <LI>
*     A single byte that combines the encoding version and the padding length.
*     The least significant four bits represent a two's complement integer that
*     indicate the number of zero bytes that will be appended to the provided
*     password to make it a multiple of sixteen bytes. The most significant
*     four bits represent the encoding version. At present, we only support a
*     single encoding version in which all of those bits must be set to zero.
*     With this encoding version, the following properties will be used:
*   </LI>
*   <UL>
*     <LI>Cipher Transformation: AES/GCM/NoPadding</LI>
*     <LI>Key Factory Algorithm: PBKDF2WithHmacSHA512</LI>
*     <LI>Key Factory Iteration Count: 32,768</LI>
*     <LI>Key Factory Salt Length: 128 bits (16 bytes)</LI>
*     <LI>Key Factory Generated Key length: 256 bits (32 bytes)</LI>
*     <LI>Initialization Vector Length: 128 bits (16 bytes)</LI>
*     <LI>GCM Tag Length: 128 bits</LI>
*     <LI>Padding Modulus: 16</LI>
*   </UL>
*   <LI>
*     Sixteen bytes of random data generated by a secure random number
*     generator. This represents the salt provided to the key factory for the
*     purpose of generating the secret key.
*   </LI>
*/
* Sixteen bytes of random data generated by a secure random number generator. This represents the initialization vector that will be used to randomize the cipher output.
* One byte that represents a two's complement integer that indicates the number of bytes in the ID of the encryption settings definition whose passphrase is used to generate the encryption key. The value must be less than or equal to 255. For current versions of the Ping Identity Directory Server, it will typically be 32 bytes.
* The bytes that comprise the raw ID of the encryption settings definition whose passphrase will be used to generate the encryption key.
* The bytes that comprise the encrypted password using the above settings.
* The string representation of the encoded password is generated by appending the base64-encoded representation of the raw encoded bytes to the prefix "(AES256)".
* When encrypting a password using this algorithm, the first step is to generate the encryption key. This is done using a key factory, which combines a passphrase (obtained from an encryption settings definition), an iteration count, and a salt.
* The second step is to apply any necessary padding to the password. Because AES used in Galois Counter mode (GCM) behaves as a stream cipher, the size of the encrypted data can be used to determine the size of the plaintext that was encrypted. This is undesirable when encrypting passwords because it can let an attacker know how long the user's password is. Padding the password (by appending enough zero bytes to make its length a multiple of sixteen bytes) makes it impossible for an attacker to determine the size of the clear-text password.
* The final step is to perform the encryption. A cipher is created using the generated secret key and initialization vector, and it is used to encrypt the padded password.
* Because this encoding uses reversible encryption rather than a one-way algorithm, there are two possible ways to verify that a provided plain-text password matches an encoded representation. Both involve decoding the encoded representation of the password to extract the padding length, salt, initialization vector, and encryption settings definition ID. Then, you can
* either encrypt the provided plaintext password with the same settings to
* verify that it yields the same encoded representation, or you can decrypt
* the encoded password and remove any padding to verify that it yields the same
* plaintext representation.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/AES256EncodedPassword.java
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/**
* This class provides a search result listener that will be used by the
* [@link MoveSubtree#moveSubtreeWithRestrictedAccessibility} method. It will
* accept entries identified in the source server and add them to the target
* server.
* *<BR>*
* *<QUOTE>
* *<B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00ExtendedEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/json/JSONBuffer.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00SearchEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/transformations/ScrambleAttributeTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00AbandonEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00UnbindEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/transformations/RenameAttributeTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/FilterFileReader.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/listener/RateLimiterRequestHandler.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/transformations/EntryTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/ssl/SetEnabledProtocolsAndCipherSuitesSSLServerSocketFactory.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/args/SubCommand.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldif/AggregateLDIFReaderChangeRecordTranslator.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/transformations/ReplaceAttributeTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/transformations/RedactAttributeTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/util/DNFileReader.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00AddEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/transformations/ExcludeEntryTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/transformations/ExcludeAttributeTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/transformations/PreEncodedLDIFEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldif/AggregateLDIFWriterChangeRecordTranslator.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldif/LDIFChangeRecordTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldif/AggregateLDIFWriterEntryTranslator.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldif/MoveSubtreeTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldif/TransformLDIF.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00ModifyEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldif/AggregateLDIFReaderEntryTranslator.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/args/TimestampRangeArgumentValueValidator.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/args/TimestampArgument.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/args/IPAddressArgumentValueValidator.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00DeleteEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/experimental/DraftChuLDAPLogSchema00CompareEntry.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/transformations/package-info.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/transformations/MoveSubtreeTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/transformations/LDIFChangeRecordTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/transformations/AddAttributeTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/transformations/ReplaceWithCounterTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/transformations/FlattenSubtreeTransformation.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/transformations/TransformLDIF.java

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*/
/**
* This class provides a tool that can be used to generate a TOTP shared secret
* for a user. That shared secret may be used to generate TOTP authentication
* codes for the purpose of authenticating with the UNBOUNDID-TOTP SASL
* mechanism, or as a form of step-up authentication for external applications
* using the validate TOTP password extended operation.
* 
* <BR>
* <BLOCKQUOTE>
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* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/tools/GenerateTOTPSharedSecret.java
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 */

/**
 * This class provides an extended request that may be used to retrieve a list
 * of the subscriptions associated with a specified notification manager,
 * optionally restricted to a specified set of destinations.
 */
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{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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The request has an OID of 1.3.6.1.4.1.30221.2.6.40 and a value with the
following encoding:

```
ListNotificationSubscriptionsRequest ::= SEQUENCE {
   notificationManagerID          OCTET STRING,
   notificationDestinationIDs     SET OF OCTET STRING OPTIONAL }
```

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* This program is free software; you can redistribute it and/or modify
* This class defines a monitor entry that provides basic information about the
  Berkeley DB Java Edition environment in use for a backend.
* <BR>
* <BLOCKQUOTE>
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* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* The information that is provided includes:
* <UL>
*   <LI>The backend ID for the associated backend.</LI>
*   <LI>The version string for the Berkeley DB Java Edition library.</LI>
*   <LI>The path to the directory containing the database environment
*      files.</LI>
*   <LI>The amount of space consumed by the database files.</LI>
*   <LI>The amount of memory currently consumed by the database cache.</LI>
*   <LI>The maximum amount of memory that may be consumed by the database
*      cache.</LI>
*   <LI>The percent of the total memory allowed for the database cache that is
*      currently in use.</LI>
*   <LI>Whether a checkpoint is currently in progress.</LI>
*   <LI>The total number of checkpoints that have been completed.</LI>
*   <LI>The time that the last completed checkpoint began.</LI>
*   <LI>The time that the last completed checkpoint ended.</LI>
*   <LI>The total duration of all checkpoints completed.</LI>
*   <LI>The average duration of all checkpoints completed.</LI>
*   <LI>The duration of the last checkpoint completed.</LI>
*   <LI>The length of time since the last checkpoint.</LI>
*   <LI>The number of log files that the cleaner needs to examine.</LI>
*   <LI>The number of nodes evicted from the database cache.</LI>
* </UL>
* The number of random-access disk reads performed.
* The number of random-access disk writes performed.
* The number of sequential disk reads performed.
* The number of sequential disk writes performed.
* The number of active transactions in the database environment.
* The number of read locks held in the database environment.
* The number of write locks held in the database environment.
* The number of transactions waiting on locks.
* A set of generic statistics about the database environment.
* A set of generic statistics about the lock subsystem for the database environment.
* A set of generic statistics about the transaction subsystem for the database environment.

The JE environment monitor entries provided by the server can be retrieved using the `@link MonitorManager#getJEEnvironmentMonitorEntries` method. These entries provide specific methods for accessing information about the JE environment (e.g., the `@link JEEnvironmentMonitorEntry#getJEVersion` method can be used to retrieve the Berkeley DB JE version). Alternately, this information may be accessed using the generic API. See the `@link MonitorManager` class documentation for an example that demonstrates the use of the generic API for accessing monitor data.

* Found in path(s):
  * /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/monitors/JEEnvironmentMonitorEntry.java

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*/
/**
* This class provides a joined entry, which is a read-only representation of an
* entry that has been joined with a search result entry using the LDAP join
* control. See the class-level documentation for the
* [ @link JoinRequestControl ] class for additional information and an example
* demonstrating its use.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
* Joined entries are encoded as follows:
* <PRE>
*   JoinedEntry ::= SEQUENCE {
*       objectName             LDAPDN,
*       attributes            PartialAttributeList,
*       nestedJoinResults     SEQUENCE OF JoinedEntry OPTIONAL }
* </PRE>
*/

Found in path(s):
*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/JoinedEntry.java
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 */

/*
 * This class defines a request control that may be included in a search request
 * to indicate that the server should include replication conflict entries in
 * the set of search result entries.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 *   supported for use against Ping Identity, UnboundID, and
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 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 */

/*

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*/
* This control is not based on any public standard. It was originally
devolved for use with the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent
* 8661 Directory Server. It does not have a value.
* 
* There is no corresponding response control. Replication conflict entries may
* be identified by the object class "ds-sync-conflict-entry".
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/ReturnConflictEntriesRequestControl.java

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This class provides an implementation of the stream proxy values extended request as used in the Ping Identity, UnboundID, Nokia/Alcatel-Lucent 8661 Directory Proxy Server. It may be used to obtain all entry DNs and/or all values for one or more attributes for a specified portion of the DIT.

This extended request has an OID of "1.3.6.1.4.1.30221.2.6.8" and the value is encoded as follows:

```
StreamProxyValuesRequest ::= SEQUENCE {
  baseDN [0] LDAPDN,
  includeDNs [1] DNSelection OPTIONAL,
  attributes [2] SEQUENCE OF LDAPString OPTIONAL,
  valuesPerResponse [3] INTEGER (1 .. 32767) OPTIONAL,
  backendSets [4] SEQUENCE OF BackendSetConfig,
  ... }

DNSelection ::= SEQUENCE {
  scope [0] ENUMERATED {
    baseObject (0),
    singleLevel (1),
    wholeSubtree (2),
    subordinateSubtree (3),
    ... } }

BackendSetConfig ::= SEQUENCE {
  backendSetID OCTET STRING,
  backendServers SEQUENCE OF SEQUENCE {
    host OCTET STRING,
    port INTEGER (1 .. 65535) } }
```

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 */

/**
 * The OID for a proprietary control that can be used to indicate that the
 * associated operation should be considered an internal operation that was
 * requested by a method call in the in-memory directory server class rather
 * than from an LDAP client. It may be used to bypass certain restrictions
 * that might otherwise be enforced (e.g., allowed operation types, write
 * access to NO-USER-MODIFICATION attributes, etc.).
 */
Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/InMemoryRequestHandler.java

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*/
/**
* This class provides an {@link LDAPCompare} output handler that will format
* messages as tab-delimited text.
* <BR>
* <BLOCKQUOTE>
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* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPCompareTabDelimitedOutputHandler.java

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/**
This class provides an extended request that may be used to delete a notification destination.

**<BLOCKQUOTE>
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** </BLOCKQUOTE>

The request has an OID of 1.3.6.1.4.1.30221.2.6.37 and a value with the following encoding:

```
DeleteNotificationDestinationRequest ::= SEQUENCE {
    notificationManagerID          OCTET STRING,
    notificationDestinationID     OCTET STRING
}
```

Found in path(s):
```
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeleteNotificationDestinationExtendedRequest.java
```

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*/
/**
* This class provides a response control that may be used to provide
* information about the number of entries that match a given set of search
* criteria. The control will be included in the search result done message
* for any successful search operation in which the request contained a matching
* entry count request control.
* 
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The matching entry count response control has an OID of
* "1.3.6.1.4.1.30221.2.5.37", a criticality of false, and a value with the
* following encoding:
* <PRE>
* MatchingEntryCountResponse ::= SEQUENCE {
*   entryCount CHOICE {
*     examinedCount [0] INTEGER,
*     unexaminedCount [1] INTEGER,
*     upperBound [2] INTEGER,
*     unknown [3] NULL,
*     ... }
*   debugInfo [0] SEQUENCE OF OCTET STRING OPTIONAL,
*   searchIndexed [1] BOOLEAN DEFAULT TRUE,
*   shortCircuited [2] BOOLEAN OPTIONAL,
*   fullyIndexed [3] BOOLEAN OPTIONAL,
*   candidatesAreInScope [4] BOOLEAN OPTIONAL,
* </PRE>
* remainingFilter [5] Filter OPTIONAL,
* ... ]
* </PRE>
*
* @see MatchingEntryCountRequestControl
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6.0.3-sources-
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*/
/**
This class provides an implementation of a request control that can be included in a bind request to indicate that the server should include a control in the bind response with information about any password policy state notices, warnings, and/or errors for the user.

NOTE: This class, and other classes within the com.unboundid.ldap.sdk.unboundidds package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

This control has an OID of 1.3.6.1.4.1.30221.2.5.46 and no value. It must only be used in a bind request that also includes the RetainIdentityRequestControl, and the authentication identify of the connection prior to sending the bind request must have the permit-get-password-policy-state-issues privilege.
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This package contains a number of helper classes for interacting with monitor
entries in Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server
products. It provides methods for parsing the monitor entries as specific
subtypes and for extracting the information that they provide in useful ways.

NOTE: The classes within this package, and elsewhere within the
{@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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interoperable way with other types of LDAP servers.

The {@code MonitorManager} class provides a number of utility methods for
retrieving server monitor entries from a Ping Identity/UnboundID Directory
Server. The {@code MonitorEntry} class and its subclasses provide access to
the data in those monitor entries.

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*/
/**
* This class provides a data structure that holds information about an audit
* log message that represents a modify DN operation.
* <BR>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* for proprietary functionality or for external specifications that are not
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* interoperable way with other types of LDAP servers.
* */

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyDNAuditLogMessage.java

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 */
/**
 * Processes a simple bind request with the provided DN and password using a
 * read connection from this connection pool. Note that this will impact the
 * state of the connection in the pool, and therefore this method should only
 * be used if this connection pool is used exclusively for processing bind
 * operations, or if the retain identity request control (a proprietary
 * control for use with the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
 * 8661 Directory Server) is included in the bind request to ensure that the
 * authentication state is not impacted.
 *
 * @param  bindDN    The bind DN for the bind operation.
 * @param  password  The password for the simple bind operation.
 */
* @return The result of processing the bind operation.
*
* @throws LDAPException If the server rejects the bind request, or if a
* problem occurs while sending the request or reading
* the response.
*/
/**
 * Processes the provided bind request using a read connection from this
 * connection pool. Note that this will impact the state of the connection in
 * the pool, and therefore this method should only be used if this connection
 * pool is used exclusively for processing bind operations, or if the retain
 * identity request control (a proprietary control for use with the Ping
 * Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server) is
 * included in the bind request to ensure that the authentication state is not
 * impacted.
*
* @param bindRequest The bind request to be processed. It must not be
* @code null @endcode.
*
* @return The result of processing the bind operation.
*
* @throws LDAPException If the server rejects the bind request, or if a
* problem occurs while sending the request or reading
* the response.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/LDAPReadWriteConnectionPool.java
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*/
/**
* This class provides an intermediate response listener that will be used to
* handle output, archive fragment, and other types of intermediate response
* messages returned to the client in the course of processing a collect support
* data extended operation.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
*   Nokia/Alcatel-Lucent 8661 server products. These classes provide support
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*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/CollectSupportDataIRListener.java
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This class provides a data structure that holds information about a log message that may appear in the Directory Server access log about a compare request forwarded to a backend server.

WARNING: This class, and other classes within the
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 */

/**
 * This class provides an implementation of an extended request that may be used
 * to retrieve the set of password quality requirements that the Directory
 * Server will impose for a specified operation, which may include adding a new
 * user (including a password), a user changing his/her own password (a self
 * change), or one user changing the password for another user (an
* administrative reset).
* <BR>
* </BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* This extended request has an OID of 1.3.6.1.4.1.30221.2.6.43 and a value with
* the following encoding:
* <PRE>
* GetPasswordQualityRequirementsRequestValue ::= SEQUENCE {
*   target CHOICE {
*     addWithDefaultPasswordPolicy [0] NULL,
*     addWithSpecifiedPasswordPolicy [1] LDAPDN,
*     selfChangeForAuthorizationIdentity [2] NULL,
*     selfChangeForSpecifiedUser [3] LDAPDN,
*     administrativeResetForUser [4] LDAPDN,
*     ... },
*   ... }
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetPasswordQualityRequirementsExtendedRequest.java
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*/
/**
* This class defines an exception that may be thrown if a problem occurs while
* attempting to parse an audit log message.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/AuditLogException.java

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* /
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a client
* certificate that has been presented to the server.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*   supported for use against Ping Identity, UnboundID, and
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* </BLOCKQUOTE>
* /
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/logs/ClientCertificateAccessLogMessage.java
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/*
This class provides an `{@link LDAPCompare}` output handler that will format messages as JSON objects.

* **NOTE:** This class, and other classes within the
  `{@code com.unboundid.ldap.sdk.unboundidds}` package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.
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 */
/**
 * This class implements a data structure for storing the information from an
 * extended result for the start batched transaction extended request. It is
 * able to decode a generic extended result to extract the transaction ID that
 * it contains, if the operation was successful.
 * <BR>
 * <BLOCKQUOTE>
<B>NOTE:</B> This class, and other classes within the
[@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
supported for use against Ping Identity, UnboundID, and
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See the documentation for the [@link StartBatchedTransactionExtendedRequest]
class for an example that demonstrates the use of batched transactions.

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* */
/**
* This class provides an implementation of an intermediate response which
* indicates that the Directory Server may have already purged information about
* one or more changes.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The missing changelog entries intermediate response value may be present, and
* if it is then it will have the following encoding:
* <PRE>
*   MissingEntriesIntermediateResponse ::= SEQUENCE {
*       message     [0] OCTET STRING OPTIONAL,
*       ... }
* </PRE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/MissingChangelogEntriesIntermediateResponse.java
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/**
* This class defines a data structure that provides information about the
* availability of an LDAP external server associated with a load-balancing
* algorithm.
* <B>NOTE:</B> This class, and other classes within the
* com.unboundid.ldap.sdk.unboundidds package structure, are only
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/LoadBalancingAlgorithmServerAvailabilityData.java
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/*
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This class provides an implementation of an extended result that may be used
* to provide information about the result of processing for a deliver one-time
* password extended request. If the one-time password was delivered
* successfully, then this result will include information about the mechanism
* through which that message was delivered.
* <BR>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* for proprietary functionality or for external specifications that are not
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* </BLOCKQUOTE>
* <BR>
* If the request was processed successfully, then the extended result will have
* an OID of 1.3.6.1.4.1.30221.2.6.25 and a value with the following encoding:
DeliverOTPResult ::= SEQUENCE {
  deliveryMechanism  [0] OCTET STRING,
  recipientDN       [1] LDAPDN,
  recipientID       [2] OCTET STRING OPTIONAL,
  message           [3] OCTET STRING OPTIONAL,
  ... }

@see  com.unboundid.ldap.sdk.unboundidds.UnboundIDDeliveredOTPBindRequest
@see  DeliverOneTimePasswordExtendedRequest
/*

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/DeliverOneTimePasswordExtendedResult.java
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 */
/*
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about a delete
 * request that was forwarded to a backend server but did not complete
 * successfully.
 */
/*<BLOCKQUOTE>
 * <B>NOTE:</B> This class, and other classes within the
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 */
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*/

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*/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/DeleteForwardFailedAccessLogMessage.java
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 */
/*
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an
* intermediate response returned to a client.
* <BR>
* <BLOCKQUOTE>
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*/
/**
** This class implements a data structure which encapsulates the value of an intermediate client response value. It may recursively embed intermediate client response values from upstream servers.
** <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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*   interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* See the documentation in the [@link IntermediateClientRequestControl] class
* for an example of using the intermediate client request and response controls.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/IntermediateClientResponseValue.java
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 */

/**
 * This class implements an extended result that may be returned in response to
 * a ReplaceInterServerCertificateExtendedRequest. See the
 * ReplaceCertificateExtendedResult class for a description of the
 * content for the result.
 * <BR>
 * <BLOCKQUOTE>
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 */
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/ReplaceInterServerCertificateExtendedResult.java
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/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about the result
* of an extended operation processed by the Directory Server.
* <BR>
* <BLOCKQUOTE>
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* jar/com/unboundid/ldap/sdk/unboundidds/logs/ExtendedResultAccessLogMessage.java
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This class provides an extended request that may be used to create or update a notification destination.

```plaintext
SetNotificationDestinationRequest ::= SEQUENCE {
  notificationManagerID  OCTET STRING,
  notificationDestinationID  OCTET STRING,
  destinationDetails  SEQUENCE OF OCTET STRING,
  changeType [0] ENUMERATED {
    replace (0),
    add (1),
    delete (2) } DEFAULT replace
}
```

The request has an OID of 1.3.6.1.4.1.30221.2.6.36 and a value with the following encoding:
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*/
/**
* This class provides an implementation of the end batched transaction extended
* result. It is able to decode a generic extended result to extract the
* appropriate response information.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
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* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The end batched transaction result may include two elements:
* <UL>
* <LI>{@code failedOpMessageID} -- The message ID associated with the LDAP
* request that caused the transaction to fail. It will be "{@code -1}"
* if the transaction was committed successfully.</LI>
* <LI>{@code opResponseControls} -- A map containing the response controls
* associated with each of the operations processed as part of the
* transaction, mapped from the message ID of the associated request to
the array of response controls for that operation. If there are no
response controls for a given request, then it will not be included in
the map.</LI>
</UL>

Note that both of these elements reference the LDAP message ID for the
associated request. Normally, this is not something that developers using
the UnboundID LDAP SDK for Java need to access since it is handled behind the
scenes, but the LDAP message ID for an operation is available through the
{@link com.unboundid.ldap.sdk.LDAPResult#getMessageID} method in the response
for that operation. When processing operations that are part of a batched,
transaction it may be desirable to keep references to the associated requests
mapped by message ID so that they can be available if necessary for the
[code failedOpMessageID] and/or [code opResponseControls] elements.

See the documentation for the [StartBatchedTransactionExtendedRequest]
for an example of performing a batched transaction.

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This class provides a request control that may be included in an add, modify,
result in a uniqueness conflict with any other entry in the server. Each
instance of this control should define exactly one uniqueness constraint for
the associated operation. Multiple instances of this control can be included
in the same request to define multiple independent uniqueness constraints
that must all be satisfied. If any of the uniqueness constraints is not
satisfied, then the corresponding LDAP result should have a result code of
{@link ResultCode#ASSERTION_FAILED} and a {@link UniquenessResponseControl}
for each uniqueness constraint that was not satisfied.

This class, and other classes within the
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interoperable way with other types of LDAP servers.

The request properties must contain either one or more attribute types, a
filter, or both. If only a filter is specified, then the server will use
that filter to identify conflicts (for an add request, any matches at all
will be considered a conflict; for a modify or modify DN request, any matches
with any entry other than the one being updated will be considered a
conflict). If a single attribute type is specified with no filter, then any
change that would result in multiple entries having the same value for that
attribute will be considered a conflict. If multiple attribute types are
specified, then the multiple attribute behavior will be used to determine how
to identify conflicts, as documented in the
{@link UniquenessMultipleAttributeBehavior} enum. If both a set of attribute
types and a filter are provided, then only entries matching both sets of
criteria will be considered a conflict.

The server can perform two different searches in an attempt to identify
conflicts. In the pre-commit phase, it will attempt to identify any
* conflicts that already exist, and will reject the associated change if there
* are any. In the post-commit phase, it can see if there were any conflicts
* introduced by the change itself or by another change happening at the same
* time. If a conflict is detected in the post-commit phase, then the server
* won't have prevented it, but at least the control can be used to provide
* notification about it. The server may also raise an administrative alert to
* notify administrators about the conflict.
* &lt;BR&gt;&lt;BR&gt;
* Although post-commit validation on its own should be able to detect conflicts
* that arise as a result of concurrent changes in other instances, it is also
* possible to take additional measures to help prevent conflicts from arising
* in the first place. The control may indicate that the server should create
* a temporary conflict prevention details entry before beginning pre-commit
* validation processing. This entry may be found during pre-commit validation
* performed for any conflicting concurrent updates so that the conflicting
* operation is rejected. This temporary entry will be automatically removed
* after uniqueness processing has completed, regardless of its success or
* failure.
* &lt;BR&gt;&lt;BR&gt;
* This request control may be sent either directly to a Directory Server
* instance, or it may be sent to a Directory Proxy Server with or without entry
* balancing. If the request is sent directly to a Directory Server, then only
* that one server will be checked for uniqueness conflicts, and it is possible
* that concurrent conflicts may be introduced on other servers that have not
* yet been replicated by the time control processing has completed. If the
* request is sent to a Directory Proxy Server instance, then search may be
* processed in one or more backend servers based on the pre-commit and
* post-commit validation levels, and at the most paranoid levels, it is highly
* unlikely that any conflicts will go unnoticed.
* &lt;BR&gt;&lt;BR&gt;
* The request control has an OID of 1.3.6.1.4.1.30221.2.5.52, a criticality of
* either {@code true} or {@code false}, and a value with the following
* encoding:
* &lt;PRE&gt;
* UniquenessRequestValue ::= SEQUENCE {
*   uniquenessID [0] OCTET STRING,
*   attributeTypes [1] SET OF OCTET STRING OPTIONAL,
*   multipleAttributeBehavior [2] ENUMERATED {
*     uniqueWithinEachAttribute (0),
*     uniqueAcrossAllAttributesIncludingInSameEntry (1),
*     uniqueAcrossAllAttributesExceptInSameEntry (2),
*     uniqueInCombination (3),
*   } DEFAULT uniqueWithinEachAttribute,
*   baseDN [3] LDAPDN OPTIONAL,
*   filter [4] Filter OPTIONAL,
*   preventConflictsWithSoftDeletedEntries [5] BOOLEAN DEFAULT FALSE,
*   preCommitValidationLevel [6] ENUMERATED {
*     none (0),
*   ... }
* &lt;/PRE&gt;
* allSubtreeViews (1),
* allBackendSets (2),
* allAvailableBackendServers (3),
* ... } DEFAULT allSubtreeViews,
* postCommitValidationLevel [7] ENUMERATED {
  * none (0),
  * allSubtreeViews (1),
  * allBackendSets (2),
  * allAvailableBackendServers (3),
  ... } DEFAULT allSubtreeViews,
* alertOnPostCommitConflictDetection [8] BOOLEAN DEFAULT TRUE,
* createConflictPreventionDetailsEntry [9] BOOLEAN DEFAULT FALSE,
... }
</PRE>

Example

The following example demonstrates how to use the uniqueness request control
* to only process an add operation if it does not result in multiple entries
* that have the same uid value:

```
// Create the properties to build a uniqueness request control that
// will try to prevent an add operation from creating a new entry
// that has the same uid as an existing entry in the server. During
// pre-commit processing (which happens before the server actually
// processes the add), the server will check at least one server in
// each entry-balancing backend set (or just one server in a
// non-entry-balanced deployment). During post-commit processing
// (which happens if the add succeeds), the server will double-check
// that no conflicting entry was added on any available server in the
// topology. Also ensure that the server will not allow conflicts
// with soft-deleted entries.
final UniquenessRequestControlProperties uniquenessProperties =
  new UniquenessRequestControlProperties("uid");
uniquenessProperties.setPreCommitValidationLevel(
  UniquenessValidationLevel.ALL_BACKEND_SETS);
uniquenessProperties.setPostCommitValidationLevel(
  UniquenessValidationLevel.ALL_AVAILABLE_BACKEND_SERVERS);
uniquenessProperties.setPreventConflictsWithSoftDeletedEntries(true);

// Create the request control. It will be critical so that the
// server will not attempt to process the add if it can't honor the
// uniqueness request.
final boolean isCritical = true;
final String uniquenessID = "uid-uniqueness";
final UniquenessRequestControl uniquenessRequestControl =
  new UniquenessRequestControl(isCritical, uniquenessID,
  uniquenessProperties);
```
* // Attach the control to an add request.
* addRequest.addControl(uniquenessRequestControl);
*
* // Send the add request to the server and read the result.
* try
* {
*   final LDAPResult addResult = connection.add(addRequest);
*   
*   // The add operation succeeded, so the entry should have been
*   // created, but there is still the possibility that a post-commit
*   // conflict was discovered, indicating that another request
*   // processed at about the same time as our add introduced a
*   // conflicting entry.
*   final Map&lt;String,UniquenessResponseControl&gt; uniquenessResponses;
*   try
*   {
*     uniquenessResponses = UniquenessResponseControl.get(addResult);
*   } catch (final LDAPException e)
*   {
*     throw new RuntimeException(
*         "The add succeeded, but a uniqueness conflict was found  " +
*         "Uniqueness validation message: " +
*         uniquenessResponseControl.getValidationMessage());
*   } }
*   
*   final UniquenessResponseControl uniquenessResponseControl =
*       uniquenessResponses.get(uniquenessID);
*   if ((uniquenessResponseControl != null) &
*     uniquenessResponseControl.uniquenessConflictFound())
*   {
*     throw new RuntimeException(
*         "The add succeeded, but an error occurred while trying  " +
*         "to decode a uniqueness response control in add  " +
*         "result ": " +
*         StaticUtils.getExceptionMessage(e),
*     e);
*   }
*   
*   try
*   {
*     uniquenessResponses = UniquenessResponseControl.get(addResult);
*   } catch (final LDAPException e)
*   {
*     throw new RuntimeException(
*         "The add succeeded, but a uniqueness problem was found  " +
*         "Uniqueness validation message: " +
*         uniquenessResponseControl.getValidationMessage());
*   } }
* catch (final LDAPException e)
* {
*   // The add attempt failed. It might have been because of a
*   // uniqueness problem, or it could have been for some other reason.
*   // To figure out which it was, look to see if there is an
*   // appropriate uniqueness response control.
*   final Map&lt;String, UniquenessResponseControl&gt; uniquenessResponses;
*   try

* {  
*     uniquenessResponses =  
*         UniquenessResponseControl.get(e.toLDAPResult());  
* }  
* catch (final LDAPException e2)  
* {  
*     throw new LDAPException(e.getResultCode(),  
*         "The add attempt failed with result "+ e.toLDAPResult() +  
*         ", and an error occurred while trying to decode a " +  
*         "uniqueness response control in the result: "+  
*         StaticUtils.getExceptionMessage(e2),  
*         e);  
* }  
*  
* final UniquenessResponseControl uniquenessResponseControl =  
*     uniquenessResponses.get(uniquenessID);  
* if (uniquenessResponseControl == null)  
* {  
*     // The add result didn't include a uniqueness response control,  
*     // indicating that the failure was not because of a uniqueness  
*     // conflict.  
*     throw e;  
* }  
*  
* if (uniquenessResponseControl.uniquenessConflictFound())  
* {  
*     // The add failed, and the uniqueness response control indicates  
*     // that the failure was because of a uniqueness conflict.  
*     final UniquenessValidationResult preCommitResult =  
*         uniquenessResponseControl.getPreCommitValidationResult();  
*     final UniquenessValidationResult postCommitResult =  
*         uniquenessResponseControl.getPreCommitValidationResult();  
*     final String validationMessage =  
*         uniquenessResponseControl.getValidationMessage();  
*     throw e;  
* }  
* else  
* {  
*     // The add failed, but the uniqueness response control indicates  
*     // that the failure was not because of a uniqueness conflict.  
*     throw e;  
* }  
* }  
* </PRE>  
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 */
/*
 * This class defines a monitor entry that provides general information about a
 * Directory Server backend.
 */
/*
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Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

Information that may be available in a backend monitor entry includes:

- The backend ID for the backend.
- The set of base DNs for the backend.
- The total number of entries in the backend.
- The number of entries in the backend per base DN.
- The writability mode for the backend, which indicates whether it will accept write operations.
- An indication about whether the backend is public (intended to hold user data) or private (intended to hold operational data).

The set of backend monitor entries published by the directory server can be obtained using the \{MonitorManager\#getBackendMonitorEntries\} method. Specific methods are available for accessing the associated monitor data (e.g., \{MonitorManager\#getBackendID\} to retrieve the backend ID), and there are also methods for accessing this information in a generic manner (e.g., \{MonitorManager\#getMonitorAttributes\} to retrieve all of the monitor attributes). See the \{MonitorManager\} class documentation for an example that demonstrates the use of the generic API for accessing monitor data.

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/BackendMonitorEntry.java

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/**
* This class provides a search result listener that will be used by the
* [@link MoveSubtree#moveEntryWithInteractiveTransaction] method. It will
* accept entries identified in the source server and add them to the target
* server.
* <BR>
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  jar/com/unboundid/ldap/sdk/unboundidds/MoveSubtreeTxnSearchListener.java

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/**
* This package contains sample programs that demonstrate the use of the
* UnboundID LDAP SDK for Java, and in particular portions of the LDAP SDK which
* are only intended for use with Ping Identity, UnboundID, or
* Nokia/Alcatel-Lucent 8661 server products.  See the com.unboundid.ldap.sdk
*.examples package for a set of examples that use only generally-available
* features.
* <BR>
* <B><BLOCKQUOTE>
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* </B><BR>
* Note that the scope of these programs has been intentionally kept small so
* that they are easier to understand, even though this may limit the real-world
* usefulness of these examples. Further, these programs do not include
* support for internationalization and have minimal debugging code to further
* simplify them.
*/

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 */

/**
 * This class defines the base class for gauge monitor entries, which provide
* information common to all types of gauges. Subclasses may provide more
* specific information for that specific type of gauge.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
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  jar/com/unboundid/ldap/sdk/unboundidds/monitors/GaugeMonitorEntry.java
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/*
/**
 * This class provides a tool that can be used to search an LDAP directory
 * server repeatedly using multiple threads. It can help provide an estimate of
 * the search performance that a directory server is able to achieve. Either or
 * both of the base DN and the search filter may be a value pattern as
 * described in the [@link ValuePattern class. This makes it possible to
 * search over a range of entries rather than repeatedly performing searches
 * with the same base DN and filter.
 * <BR><BR>
 * Some of the APIs demonstrated by this example include:
 * <UL>
 * <LI>Argument Parsing (from the [@code com.unboundid.util.args]
 *     package)</LI>
 * <LI>LDAP Command-Line Tool (from the [@code com.unboundid.util]
 *     package)</LI>
 * <LI>LDAP Communication (from the [@code com.unboundid.ldap.sdk]
 *     package)</LI>
 * <LI>Value Patterns (from the [@code com.unboundid.util] package)</LI>
 * </UL>
 * <BR><BR>
 * All of the necessary information is provided using command line arguments.
 * Supported arguments include those allowed by the [@link LDAPCommandLineTool]
 * class, as well as the following additional arguments:
 * <UL>
 * <LI>"-b {baseDN}" or "--baseDN {baseDN}" -- specifies the base DN to use
 *     for the searches. This must be provided. It may be a simple DN, or it
 *     may be a value pattern to express a range of base DNs.</LI>
 * <LI>"-s {scope}" or "--scope {scope}" -- specifies the scope to use for the
 *     search. The scope value should be one of "base", "one", "sub", or
 *     "subord". If this isn't specified, then a scope of "sub" will be
 *     used.</LI>
 * <LI>"-z {num}" or "--sizeLimit {num}" -- specifies the maximum number of
 *     entries that should be returned in response to each search
 *     request.</LI>
 */
* `-l {num}` or `--timeLimitSeconds {num}` -- specifies the maximum length of time, in seconds, that the server should spend processing each search request.</LI>
* `<LI>``--dereferencePolicy {value}` -- specifies the alias dereferencing policy that should be used for each search request. Allowed values are "never", "always", "search", and "find".</LI>
* `<LI>``--typesOnly` -- indicates that search requests should have the typesOnly flag set to true, indicating that matching entries should only include attributes with an attribute description but no values.</LI>
* `<LI>``-f {filter}` or `--filter {filter}` -- specifies the filter to use for the searches. This must be provided. It may be a simple filter, or it may be a value pattern to express a range of filters.</LI>
* `<LI>``-A {name}` or `--attribute {name}` -- specifies the name of an attribute that should be included in entries returned from the server. If this is not provided, then all user attributes will be requested. This may include special tokens that the server may interpret, like "1.1" to indicate that no attributes should be returned, "*", for all user attributes, or "+" for all operational attributes. Multiple attributes may be requested with multiple instances of this argument.</LI>
* `<LI>``--ldapURL {url}` -- Specifies an LDAP URL that represents the base DN, scope, filter, and set of requested attributes that should be used for the search requests. It may be a simple LDAP URL, or it may be a value pattern to express a range of LDAP URLs. If this argument is provided, then none of the --baseDN, --scope, --filter, or --attribute arguments may be used.</LI>
* `<LI>``-t {num}` or `--numThreads {num}` -- specifies the number of concurrent threads to use when performing the searches. If this is not provided, then a default of one thread will be used.</LI>
* `<LI>``--intervalDuration {sec}` -- specifies the length of time in seconds between lines out output. If this is not provided, then a default interval duration of five seconds will be used.</LI>
* `<LI>``-I {num}` or `--numIntervals {num}` -- specifies the maximum number of intervals for which to run. If this is not provided, then it will run forever.</LI>
* `<LI>``--iterationsBeforeReconnect {num}` -- specifies the number of search iterations that should be performed on a connection before that connection is closed and replaced with a newly-established (and authenticated, if appropriate) connection.</LI>
* `<LI>``--ratePerSecond {searches-per-second}` -- specifies the target number of searches to perform per second. It is still necessary to specify a sufficient number of threads for achieving this rate. If this option is not provided, then the tool will run at the maximum rate for the specified number of threads.</LI>
* `<LI>``--variableRateData {path}` -- specifies the path to a file containing information needed to allow the tool to vary the target rate over time. If this option is not provided, then the tool will either use a fixed
* target rate as specified by the "--ratePerSecond" argument, or it will
  * run at the maximum rate.</UL>
* <LI>"--generateSampleRateFile {path}" -- specifies the path to a file to
  * which sample data will be written illustrating and describing the
  * format of the file expected to be used in conjunction with the
  * "--variableRateData" argument.</LI>
* <LI>"--warmUpIntervals {num}" -- specifies the number of intervals to
  * complete before beginning overall statistics collection.</LI>
* <LI>"--timestampFormat {format}" -- specifies the format to use for
  * timestamps included before each output line. The format may be one of
  * "none" (for no timestamps), "with-date" (to include both the date and
  * the time), or "without-date" (to include only time). </LI>
* <LI>"-Y {authzID}" or "--proxyAs {authzID}" -- Use the proxied
  * authorization v2 control to request that the operation be processed
  * using an alternate authorization identity. In this case, the bind DN
  * should be that of a user that has permission to use this control. The
  * authorization identity may be a value pattern. </LI>
* <LI>"-a" or "--asynchronous" -- Indicates that searches should be performed
  * in asynchronous mode, in which the client will not wait for a response
  * to a previous request before sending the next request. Either the
  * "--ratePerSecond" or "--maxOutstandingRequests" arguments must be
  * provided to limit the number of outstanding requests.</LI>
* <LI>"-O {num}" or "--maxOutstandingRequests {num}" -- Specifies the maximum
  * number of outstanding requests that will be allowed in asynchronous
  * mode.</LI>
* <LI>"--suppressErrorResultCodes" -- Indicates that information about the
  * result codes for failed operations should not be displayed.</LI>
* <LI>"-c" or "--csv" -- Generate output in CSV format rather than a
  * display-friendly format.</LI>
* </UL>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/examples/SearchRate.java
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This class defines a set of properties that may be used when creating a
[@link CollectSupportDataExtendedRequest].

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/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataExtendedRequestProperties.java

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This class provides an implementation of an extended request that may be used to request that the server suggest one or more passwords that the client may use in new entries, password changes, or administrative password resets.

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This extended request has an OID of "1.3.6.1.4.1.30221.2.6.62" and a value with the following encoding:
* GeneratePasswordRequest ::= SEQUENCE {
  passwordPolicySelection CHOICE {
    defaultPolicy [0] NULL,
    passwordPolicyDN [1] LDAPDN,
    targetEntryDN [2] LDAPDN,
    ... },
  numberOfPasswords [3] INTEGER DEFAULT 1,
  validationAttempts [4] INTEGER DEFAULT 5,
  ... }

The "passwordPolicySelection" element allows the client to indicate which password policy (along with its associated password generator and password validators) should be used in the course of generating the passwords, and available options include:

- defaultPolicy -- Indicates that the server should use the default password policy as defined in the configuration.
- passwordPolicyDN -- Specifies the DN of the password policy that should be used.
- targetEntryDN -- Specifies the DN of the target entry for which the passwords are to be generated. If this entry exists, then the password policy that governs it will be used. If the entry does not exist, then the server will generate a stub of an entry with the provided DN and compute virtual attributes for that entry to account for the possibility that a password policy may be assigned by a virtual attribute, but will fall back to using the default password policy as defined in the configuration.

The "numberOfPasswords" element indicates the number of passwords that the server should generate, since it may be beneficial for the server to suggest multiple passwords and allow the user to choose one. If specified, then the value must be greater than or equal to one.

The "validationAttempts" element indicates the number of attempts that the server should make to generate each password in a way that will satisfy the set of validators associated with the selected password policy. A value of zero indicates that no validation should be performed. A value of one will cause the server to invoke password validators on each generated password, still returning that password but also including information about potential reasons that generated password may not pass validation. A value that is greater than one will cause the server to re-generate each password up to the specified number of times if the previous attempt resulted in a password that did not satisfy all of the associated password validators. In the event that no acceptable password could be generated after exhausting all attempts,
* the server will select the last one generated, but will provide a list of
* reasons that the password was not considered acceptable so that they may be
* provided to the end user as additional guidance when choosing a password.
* <BR><BR>
* If the generate password operation is processed successfully, then the server
* will return a {@link GeneratePasswordExtendedResult} response with the
* passwords that it generated and other relevant information.
*/

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This class provides an enhanced implementation of the \{@link RootDSE\} class that provides access to additional attributes that may be included in the root DSE of a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 server.

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This class provides a tool that can be used to perform a variety of account
management functions against user entries in the Ping Identity, UnboundID,
or Nokia/Alcatel-Lucent 8661 Directory Server. It primarily uses the
password policy state extended operation for its processing.

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This class defines a monitor entry that provides information about the
operations currently being processed by the Directory Server.

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The server should present at most one active operations monitor entry. It
can be retrieved using the
{@link MonitorManager#getActiveOperationsMonitorEntry} method. The
{@link ActiveOperationsMonitorEntry#getActiveOperations} method may be used
to retrieve information for each operation in progress. Alternately, this
information may be accessed using the generic API. See the
{@link MonitorManager} class documentation for an example that demonstrates
the use of the generic API for accessing monitor data.
This class provides a command-line tool that can be used to search the OID registry to retrieve information an item with a specified OID or name.

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 */

/**
 * This class provides an implementation of a JSON object filter that can be
 * used to identify JSON objects that have a specified field whose value matches
 * one of specified set of values.
 * <BR>
 * <BLOCKQUOTE>
 * <B>NOTE:</B> This class, and other classes within the
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* </BLOCKQUOTE>
* <BR>
* The fields that are required to be included in an "equals any" filter are:
* <UL>
*   <LI>
*     { @code field} -- A field path specifier for the JSON field for which to
*     make the determination. This may be either a single string or an array
*     of strings as described in the "Targeting Fields in JSON Objects" section
*     of the class-level documentation for { @link JSONObjectFilter }.  
*   </LI>
* </UL>
* The fields that may optionally be included in an "equals" filter are:
* <UL>
*   <LI>
*     { @code caseSensitive} -- Indicates whether string values should be
*     treated in a case-sensitive manner. If present, this field must have a
*     Boolean value of either { @code true} or { @code false}. If it is not
*     provided, then a default value of { @code false} will be assumed so that
*     strings are treated in a case-insensitive manner.
*   </LI>
* </UL>
* <H2>Example</H2>
* The following is an example of an "equals any" filter that will match any
* JSON object that includes a top-level field of "userType" with a value of
* either "employee", "partner", or "contractor":
* value:
* <PRE>
* { "filterType" : "equalsAny",
*   "field" : "userType",
*   "values" : [ "employee", "partner", "contractor" ] }
* </PRE>
* The above filter can be created with the code:
* <PRE>
* EqualsAnyJSONObjectFilter filter = new EqualsAnyJSONObjectFilter(
*     "userType", "employee", "partner", "contractor");
* */

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 */

/*
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about a bind
* request received from a client.
* <BR>
* <BLOCKQUOTE>
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This class provides an implementation of a post-connect processor that can be
used to start an administrative session on a connection that is meant to be
part of a connection pool. If this is to be used in conjunction with other
post-connect processors (via the
{@link com.unboundid.ldap.sdk.AggregatePostConnectProcessor}), then the
start administrative session processor should generally be invoked first
(even before the
{@link com.unboundid.ldap.sdk.StartTLSPostConnectProcessor}) to ensure that
any interaction with the server will be able to make use of the dedicated
worker thread pool the server sets aside for operations using an
administrative session.

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  jar/com/unboundid/ldap/sdk/unboundidds/extensions/StartAdministrativeSessionPostConnectProcessor.java

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/**
 * This enum defines a set of change type values that may be used in conjunction
 * with the set notification destination extended request.
 *
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*/
/**
* This class provides a request control that can be used to specify a number of
* settings used for any database transaction that may be associated with the
* associated request. It may be included in an end transaction extended
* request or an atomic multi-update extended request (it is not supported for
* use in non-atomic multi-update requests).
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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* <BR>
* This control has an OID of 1.3.6.1.4.1.30221.2.5.38. It may have a
* criticality of either { @code true} (in which case the server will reject the
* associated operation if this control is not recognized) or { @code false} (in
which case the server will ignore this control if it is not recognized). It
must have a value with the following encoding:

\[
\begin{align*}
\text{TransactionSettingsRequestValue} & \coloneqq \text{SEQUENCE} \{ \\
\quad \text{transactionName} & \coloneqq [0] \text{OCTET STRING OPTIONAL}, \\
\quad \text{commitDurability} & \coloneqq [1] \text{ENUMERATED} \{ \\
\qquad \text{nonSynchronous} & \coloneqq 0, \\
\qquad \text{partiallySynchronous} & \coloneqq 1, \\
\qquad \text{fullySynchronous} & \coloneqq 2, \\
\quad \text{...} \} \text{OPTIONAL}, \\
\quad \text{backendLockBehavior} & \coloneqq [2] \text{ENUMERATED} \{ \\
\qquad \text{doNotAcquire} & \coloneqq 0, \\
\qquad \text{acquireAfterRetries} & \coloneqq 1, \\
\qquad \text{acquireBeforeRetries} & \coloneqq 2, \\
\qquad \text{acquireBeforeInitialAttempt} & \coloneqq 3, \\
\quad \text{...} \} \text{OPTIONAL}, \\
\quad \text{backendLockTimeoutMillis} & \coloneqq [3] \text{INTEGER OPTIONAL}, \\
\quad \text{retryAttempts} & \coloneqq [4] \text{INTEGER OPTIONAL}, \\
\quad \text{txnLockTimeout} & \coloneqq [5] \text{SEQUENCE} \{ \\
\qquad \text{minTimeoutMillis} & \coloneqq \text{INTEGER}, \\
\qquad \text{maxTimeoutMillis} & \coloneqq \text{INTEGER}, \\
\quad \text{...} \} \text{OPTIONAL}, \\
\quad \text{returnResponseControl} & \coloneqq [6] \text{BOOLEAN DEFAULT FALSE,} \\
\quad \text{...} \}
\end{align*}
\]

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*/
/**
 * This class provides a search result listener that will be used to report
 * information about search result entries and references returned for a search
 * operation.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
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jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPSearchListener.java
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* This class defines a Directory Server task that can be used to generate
* and/or rebuild one or more indexes a Berkeley DB Java Edition backend.
* <BR>
* <BLOCKQUOTE>
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* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* The properties that are available for use with this type of task include:
* <UL>
* <LI>The backend base DN for which to perform the index rebuild. This
* must be provided when scheduling a rebuild task.</LI>
* <LI>The names of the indexes to be built. At least one index name must be
* provided when scheduling a rebuild task.</LI>
* <LI>The maximum number of concurrent threads that should be used to perform
* the processing. A value of zero indicates that there is no limit.</LI>
* </UL>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/tasks/RebuildTask.java

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jar/com/unboundid/ldap/sdk/transformations/ExcludeAllEntriesTransformation.java

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/transformations/TransformationMessages.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/args/ArgsMessages.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/schema/SchemaMessages.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/persist/PersistMessages.java

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/**
* This class provides a response control that may be used to convey the
* password (and other associated information) generated in response to a
* GeneratePasswordRequestControl.  
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* */

GeneratePasswordResponse ::= SEQUENCE {
    generatedPassword          OCTET STRING,
    mustChangePassword         BOOLEAN,
}
secondsUntilExpiration  [0] INTEGER OPTIONAL,
* ... ]
* </PRE>
* 
* @see  GeneratePasswordRequestControl
*/

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 */

//
This class defines an API that should be implemented by classes which may represent a way to pare down the changelog entries that should be returned (e.g., so that they only include changes to a particular attribute or set of attributes) when using the \{@link GetChangelogBatchExtendedRequest\}.

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 *
This class provides a data structure that holds information about a log message that may appear in the Directory Server access log about a search result reference returned to a client.

This class, and other classes within the
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 */

/**
 * This class provides an implementation of an extended result that provides
 * information about the result of processing a
 * {@link CollectSupportDataExtendedRequest}. Once this message has been
 * received, all processing for the associated request will be complete, and
 * there should not be any further
 * {@link CollectSupportDataOutputIntermediateResponse} or
 * {@link CollectSupportDataArchiveFragmentIntermediateResponse} messages.
 * <BR>
 * <BLOCKQUOTE>
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 *   considered stable or mature enough to be guaranteed to work in an
 *   interoperable way with other types of LDAP servers.
 * </BLOCKQUOTE>
 * <BR>
 * If the extended operation processing failed for some reason before the server
 * could invoke the collect-support-data tool, then this response may not
 * include an OID or value. However, if the collect-support-data tool has been
 * invoked (regardless of its success or failure), then the extended result
 * should have an OID of 1.3.6.1.4.1.30221.2.6.67 and a value with the following
 * encoding:
 * <BR>
 * CollectSupportDataResponse ::= SEQUENCE {
 *   exitCode [0] INTEGER,
 *   ... }
 * */
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 */

/*
 * This class implements an extended result that may be returned in response to
 * a [ @link PurgeRetiredInterServerCertificatesExtendedRequest ] . See the
* [ @link ReplaceCertificateExtendedResult] class for a description of the 
* content for the result.

* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the 
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only 
* supported for use against Ping Identity, UnboundID, and 
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* </BLOCKQUOTE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
* jar/com/unboundid/Ldap/sdk/unboundidds/extensions/PurgeRetiredInterServerCertificatesExtendedResult.java
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This enum defines the set of multiple attribute behavior values that may be used in conjunction with the \{@link UniquenessRequestControl\}. 

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/UniquenessMultipleAttributeBehavior.java

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*/

/**
 * This class provides a data structure that will be used to hold the operations
 * to process by the parallel-update tool. The thread reading change records
 * from the LDIF file will populate this queue, and modify threads will pull
 * entries out. It will attempt to maintain a sane ordering for the operations
 * in order to resolve any dependencies that may exist between operations.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B> This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/ParallelUpdateOperationQueue.java

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*/
/**
/**
* This class provides a utility that may be used to obtain information that may
* be used to create LDAP connections to one or more servers from a definition
* contained in a JSON object. This makes it easier to create applications that
* provide the information necessary for creating LDAP connections and
* connection pools in a JSON-formatted configuration file.
* 
* The JSON-based specification is organized into five sections:
* 
* <OL>
* 
* <LI>
* A "server-details" section that provides information about the directory
* server(s) to access. The specification supports accessing a single
* server, as well as a number of schemes for establishing connections
* across multiple servers.
* </LI>
* 
* <LI>
* A "communication-security" section that provides information that may be
* used to secure communication using SSL or StartTLS.
* </LI>
* 
* <LI>
* A "connection-options" section that can be used customize a number of
* connection-related options, like connect and response timeouts, whether
* to follow referrals, whether to retrieve schema from the backend server
* for client-side use, and whether to use synchronous mode for more
* efficient communication if connections will not be used in an
* asynchronous manner.
* </LI>
* </OL>
* Each of these sections will be described in more detail below.
* <BR><BR>
* <H2>The "server-details" Section</H2>
* The JSON object that comprises the LDAP connection details specification must
* have a top-level "server-details" field whose value is a JSON object that
* provides information about the server(s) to which connections may be
* established. The value of the "server-details" field must itself be a JSON
* object, and that object must have exactly one field, which depends on the
* mechanism that the LDAP SDK should use to select the target directory
* servers.
* <BR><BR>
* <B>The "server-details" Section for Connecting to a Single Server</B>
* <BR>
* When establishing a connection to a single server, the "server-details"
* value should be a JSON object that contains a "single-server" field whose
* value is a JSON object with "address" and "port" fields. For example, the
* following is a valid specification that may be used to establish connections
* to the server at ldap.example.com on port 389:
* <PRE>
*   {
*     "server-details":
*     {
*       "single-server":
*       {
*         "address":"ldap.example.com",
*         "port":389
*       }
*     }
*   }
* </PRE>
* <BR>
* <B>The "server-details" Section for Selecting from a Set of Servers in a
* Round-Robin Manner</B>
* <BR>
* If you have a set of servers that you want to connect to in a round-robin
* manner (in which the LDAP SDK will maintain a circular list of servers and
* each new connection will go to the next server in the list), the
* "server-details" value should be a JSON object that contains a
* "round-robin-set" field whose value is a JSON object that contains a "server"
* field with an array of JSON objects, each of which contains "address" and
* "port" fields for a target server. For example, the following is a valid
* specification that may be used to establish connections across the servers
* ldap1.example.com, ldap2.example.com, and ldap3.example.com, all on port 389:
* <PRE>
* { 
*   "server-details": 
*   { 
*     "round-robin-set": 
*     { 
*       "servers": 
*       [ 
*         { 
*           "address": "ldap1.example.com", 
*           "port": 389 
*         }, 
*         { 
*           "address": "ldap2.example.com", 
*           "port": 389 
*         }, 
*         { 
*           "address": "ldap2.example.com", 
*           "port": 389 
*         } 
*       ] 
*     } 
*   } 
* </PRE>
* <BR>
* <B>The "server-details" Section for Selecting from a Set of Servers in a
* Fewest Connections Manner</B>
* <BR>
* If you have a set of servers that you want to connect to in a manner that
* selects the server with the fewest established connections (at least
* connections created from this specification), the "server-details" value
* should be a JSON object that contains a "fewest-connections-set" field whose
* value is a JSON object that contains a "server" field with an array of JSON
* objects, each of which contains "address" and "port" fields for a target
* server. For example, the following is a valid specification that may be used
* to establish connections across the servers ldap1.example.com,
* ldap2.example.com, and ldap3.example.com, all on port 389:
* <PRE>
* { 
*   "server-details": 
* </PRE>
The "server-details" Section for Selecting from a Set of Servers in a Fastest Connect Manner

If you have a set of servers that you want to connect to in a manner that attempts to minimize the time required to establish new connections (by simultaneously attempting to create connections to every server in the set and taking the first connection to be established), the "server-details" value should be a JSON object that contains a "fastest-connect-set" field whose value is a JSON object that contains a "server" field with an array of JSON objects, each of which contains "address" and "port" fields for a target server. For example, the following is a valid specification that may be used to establish connections across the servers ldap1.example.com, ldap2.example.com, and ldap3.example.com, all on port 389:

```json
{
    "server-details":
    {
        "fastest-connect-set":
        {
            "servers":
            [
                {
                    "address":"ldap1.example.com",
                    "port":389
                },
                {
                    "address":"ldap2.example.com",
                    "port":389
                },
                {
                    "address":"ldap3.example.com",
                    "port":389
                }
            ]
        }
    }
}
```
The "server-details" Section for Selecting from a Set of Servers in a Failover Manner

If you have a set of servers that you want to connect to in a manner that attempts to consistently establish connections to the same server (as long as it is available, and use a consistent failover order if the preferred server isn't available), the "server-details" value should be a JSON object that contains a "failover-set" field whose value is a JSON object that contains a "failover-order" field that provides a list of the details to use in order to establish the connections. For example, the following is a valid specification that may be used to always try to establish connections to ldap1.example.com:389, then try ldap2.example.com:389, and then try ldap3.example.com:389:

```json
{
  "server-details": {
    "failover-set": {
      "failover-order": [
        {
          "single-server": {
            "address": "ldap1.example.com",
            "port": 389
          }
        },
        {
          "single-server": {
            "address": "ldap2.example.com",
            "port": 389
          }
        },
        {
          "single-server": {
            "address": "ldap3.example.com",
            "port": 389
          }
        }
      ]
    }
  }
}
```
The failover set actually has the ability to perform failover across any kind of set. This is a powerful capability that can be useful to define a hierarchy of sets, for example for sets referring to servers in different data centers (e.g., to prefer connecting to one of the servers in the local data center over servers in a remote data center). For example, the following is a valid specification that may be used to connect to the server with the fewest connections in the east data center, but if no east servers are available then it will fail over to select the server with the fewest connections in the west data center:

```json
{
  "server-details": {
    "failover-set": {
      "failover-order": [
        {
          "fewest-connections-set": {
            "servers": [
              {
                "address": "ldap1.east.example.com",
                "port": 389
              },
              {
                "address": "ldap2.east.example.com",
                "port": 389
              }
            ]
          }
        },
        {
          "fewest-connections-set": {
            "servers": [
              {
                "address": "ldap1.west.example.com",
                "port": 389
              },
              {
                "address": "ldap2.west.example.com",
                "port": 389
              }
            ]
          }
        }
      ]
    }
  }
}
```
For connections that are part of a connection pool, failover sets have the ability to assign a different maximum connection age to connections created to a non-preferred server. This can help allow failover connections to be migrated back to the preferred server more quickly once that server is available again. If you wish to specify an alternate maximum connection age for connections to a non-preferred server, you may include the "maximum-failover-connection-age-millis" field in the "failover-set" object. The value of this field should be a number that is greater than zero to specify the maximum age (in milliseconds) for those connections, or a value of zero to indicate that they should not be subject to a maximum age. If this field is not present, then these connections will be assigned the default maximum connection age configured for the pool.

The "communication-security" Section

This section may be used to provide information about the type of security to use to protect communication with directory servers. If the specification includes information about multiple servers, then all servers will use the same type of security.

If present, the "communication-security" field should have a value that is a JSON object. This object must have a "security-type" field with one of the following values:

- "none" -- Indicates that no communication security should be used. The communication will not be encrypted.
- "SSL" -- Indicates that all communication should be encrypted with the
SSL (secure sockets layer) protocol, or more likely its more secure successor TLS (transport-layer security) protocol. You can also specify a value of "TLS" to use this type of security.

"StartTLS" -- Indicates that the connection will be initially established in a non-secure manner, but will be immediately secured with the StartTLS extended operation.

If you do not wish to use any form of communication security, then the "security-type" field is the only one that should be present. For example, the following is a valid specification that will use unencrypted communication to the server ldap.example.com on port 389:

```json
{
  "server-details":{
    "single-server":{
      "address": "ldap.example.com",
      "port": 389
    }
  },
  "communication-security":{
    "security-type": "none"
  }
}
```

If you wish to secure the communication with either SSL or StartTLS, then there are a number of other options that may be specified using fields in the "communication-security" object. Those options fall into two basic categories: fields that provide information about how the client should determine whether to trust the certificate presented by the server, and fields that provide information about whether the client should present its own certificate to the server. The fields related to client trust include:

"trust-all-certificates" -- Indicates whether the client should blindly trust any certificate that the server presents to it. Using blind trust is convenient for testing and troubleshooting purposes, but is not recommended for production use because it can leave the communication susceptible to man-in-the-middle attacks. If this field is present, then it should have a boolean value. If it is not present, a default value of `false` will be assumed. If it is present with a value of `false`, then the "use-jvm-default-trust-store", "trust-store-file", "trust-store-password", and "trust-store-url" fields will be ignored. If it is present with a value of `true`, then the "trust-store-password" field will be ignored.
* "trust-store-type", "trust-store-pin", and "trust-store-pin-file" fields should not be used.
* </LI>
* <LI>
* "use-jvm-default-trust-store" -- Indicates that certificates signed by an authority listed in the JVM's default set of trusted issuers should be trusted. If this field is present, it should have a boolean value. The JVM-default trust store may be used on its own or in conjunction with a trust store file.
* </LI>
* <LI>
* "trust-store-file" -- Specifies the path to a trust store file (in JKS or PKCS#12 format). If this is present, then the presented certificate will only be trusted if the trust store file contains information about all of the issuers in the certificate chain.
* </LI>
* <LI>
* "trust-store-type" -- Indicates the format for the trust store file. If this is present, then its value should be a string that is either "JKS" or "PKCS12".
* If it is not present, then a default trust store type of "JKS" will be assumed.
* </LI>
* <LI>
* "trust-store-pin" -- Specifies the PIN that should be used to access the contents of the trust store. If this field is present, then its value should be a string that is the clear-text PIN. If it is not present, then the PIN may be read from a file specified using the "trust-store-pin-file" field. If neither the "trust-store-pin" field nor the "trust-store-pin-file" field is present, then no PIN will be used when attempting to access the trust store (and in many cases, no trust store PIN will be required).
* </LI>
* <LI>
* "trust-store-pin-file" -- Specifies the path to a file that contains the PIN to use to access the contents of the trust store. If this field is present, then its value must be the path to a file containing a single line, which is the clear-text PIN. If it is not present, then the PIN may be obtained from the "trust-store-pin" field. If neither the "trust-store-pin" field nor the "trust-store-pin-file" field is present, then no PIN will be used when attempting to access the trust store (and in many cases, no trust store PIN will be required).
* </LI>
* <LI>
* "trust-expired-certificates" -- Indicates whether the client should trust certificates that are not yet valid or that have expired. If this field is present, then its value must be a boolean. If the value is [ @code true], then the certificate validity dates will not be taken into consideration when deciding whether to trust a certificate.
* is [@code false], then any certificate whose validity window does not
* include the current time will not be trusted (even if
* "trust-all-certificates" is [@code true]). If this field is not present,
* then a default of [@code false] will be assumed.
* </LI>
* </UL>

* "verify-address-in-certificate" -- Indicates whether the client should
* examine the information contained in the certificate to verify that the
* address the client used to connect to the server matches address
* information contained in the certificate (whether in the CN attribute of
* the certificate's subject, or in a subjectAltName extension of type
* dNSName, uniformResourceIdentifier, or iPAddress). If this field is
* present, then its value must be a boolean. If it is absent, then a
* default value of [@code false] will be assumed.
* </LI>
* </UL>

* If none of the above fields are provided, then the JVM's default trust
* mechanism will be used. This will generally only trust certificates signed
* by a well-known certification authority.
* &lt;BR&gt;&lt;BR&gt;

* The fields related to presenting a client certificate include:
* &lt;UL&gt;
* &lt;LI&gt;
* "key-store-file" -- Specifies the path to a key store file (in JKS or
* PKCS#12 format) that contains the certificate that the client should
* present to the server. If this is present, then the value must be a
* string that is the path to the key store file. If it is not present,
* then no key store file will be used.
* &lt;/LI&gt;
* &lt;LI&gt;
* "key-store-type" -- Specifies the type of key store that should be used.
* If this is present, then its value must be a string, and that string
* should be "JKS" or "PKCS12" (if a "key-store-file" value is present), or
* "PKCS11" (if the client certificate is contained in a security module
* accessible via the PKCS#11 API. If this field is not present but a
* "key-store-file" value is provided, then a default value of "JKS" will be
* assumed.
* &lt;/LI&gt;
* &lt;LI&gt;
* "key-store-pin" -- Specifies the PIN that should be used to access the
* contents of the key store. If this field is present, then its value
* should be a string that is the clear-text PIN. If it is not present,
* then the PIN may be read from a file specified using the
* "key-store-pin-file" field. If neither the "key-store-pin" field nor the
* "key-store-pin-file" field is present, then no PIN will be used when
* attempting to access the key store (although key stores generally require
* a PIN in order to access private key information).
* &lt;/LI&gt;
"key-store-pin-file" -- Specifies the path to a file containing the PIN that should be used to access the contents of the key store. If this field is present, then its value should be the path to a file containing the clear-text PIN. If it is not present, then the PIN may be obtained from the "key-store-pin" field. If neither the "key-store-pin" field nor the "key-store-pin-file" field is present, then no PIN will be used when attempting to access the key store (although key stores generally require a PIN in order to access private key information).

"client-certificate-alias" -- Specifies the alias (also known as the nickname) of the client certificate that should be presented to the directory server. If this field is present, then its value should be a string that is the alias for a valid certificate that exists in the key store. If this field is not present, then the JVM will automatically attempt to select a suitable client certificate.

If none of the above fields are provided, then the client will not attempt to present a certificate to the server.

The following example demonstrates a simple specification that can be used to establish SSL-based connections to a single server. The client will trust any certificates signed by one of the JVM's default issuers, or any certificate contained in or signed by a certificate contained in the specified trust store file. As no key store is provided, the client will not attempt to present its own certificate to the server.

```json
{
  "server-details": {
    "single-server": {
      "address": "ldap.example.com",
      "port": 636
    }
  },
  "communication-security": {
    "security-type": "SSL",
    "use-jvm-default-trust-store": true,
    "trust-store-file": "path/to/trust-store.jks",
    "trust-store-type": "JKS",
    "verify-address-in-certificate": true
  }
}
```
* The "communication-security" field is optional, and if it is omitted from the
* specification then it will be equivalent to including it with a
* "security-type" value of "none".

<h2>The "connection-options" Section</h2>

The "connection-options" section may be used to provide information about a
* number of settings that may be used in the course of establishing a
* connection, or that may affect the behavior of the connection. The value
* of the "connection-options" field must be a JSON object, and the following
* fields may appear in that object:

<ul>
  <li>
    "connect-timeout-millis" -- Specifies the maximum length of time (in
    milliseconds) that a connection attempt may block while waiting for the
    connection to be established. If this field is present, then its value
    must be a positive integer to specify the timeout, or a value of zero to
    indicate that no timeout should be enforced by the LDAP SDK. Note that
    the underlying operating system may enforce its own connect timeout, and
    if that value is smaller than the LDAP SDK timeout then the operating
    system's timeout value will be used. If this field is not present, then
    a default of 60000 (1 minute) will be used.
  </li>
  <li>
    "default-response-timeout-millis" -- Specifies the default timeout (in
    milliseconds) that will be used when waiting for a response to a request
    sent to the server. If this field is present, then its value must be a
    positive integer to specify the timeout, or a value of zero to indicate
    that no timeout should be enforced. If this field is not present, then a
    default of 300000 (5 minutes) will be used. Note that this default
    response timeout can be overridden on a per-request basis using the
    [@code setResponseTimeoutMillis] method provided by the request object.
  </li>
  <li>
    "follow-referrals" -- Indicates whether the LDAP SDK should automatically
    attempt to follow any referrals that are returned during processing. If
    this field is present, the value should be a boolean. If it is absent,
    then a default of [@code false] will be assumed.
  </li>
  <li>
    "use-schema" -- Indicates whether the LDAP SDK should attempt to retrieve
    schema information from the directory server upon establishing a
    connection to that server, and should then use that schema information
    for more accurate client-side matching operations. If present, this
    field should have a boolean value. If it is not present, then a default
    value of [@code false] will be used.
  </li>
</ul>
* "use-synchronous-mode" -- Indicates whether connections should be created
* in synchronous mode, which may be more efficient and less resource
* intensive than connections not created in synchronous mode, but may only
* be used if no attempt will be made to issue asynchronous requests over
* the connection, or to attempt to use the connection simultaneously by
* multiple threads. If this field is present, then its value must be a
* boolean. If it is not present, then a default value of { @code false}
* will be used.
* </LI>
* </UL>
* <BR>
* The "connection-options" field is optional, and if it is omitted from the
* specification then the default values will be used for all options.
* </BR></BR>
* <H2>The "authentication-details" Section</H2>
* The "authentication-details" section may be used to provide information for
* authenticating the connections that are created. The value of the
* "authentication-details" field must be a JSON object, and it must include an
* "authentication-type" field to specify the mechanism to use to authenticate.
* The selected authentication type dictates the other fields that may be
* present in the object.
* </BR></BR>
* <B>The "none" Authentication Type</B>
* <BR>
* If no authentication should be performed, then the "authentication-type"
* value should be "none". No other fields should be specified in the
* "authentication-details". For example:
* </PRE>
* {
*   "server-details":
*   {
*     "single-server":
*     {
*       "address":"ldap.example.com",
*       "port":389
*     }
*   },
*   "authentication-details":
*   {
*     "authentication-type":"none"
*   }
* }
* </PRE>
* </BR>
* <B>The "simple" Authentication Type</B>
* <BR>
* If you wish to authenticate connections with an LDAP simple bind, then you
* can specify an "authentication-type" value of "simple". The following
* additional fields may be included in the "authentication-details" object for this authentication type:

* "dn" -- The DN to use to bind to the server. This field must be present, and its value must be a string containing the bind DN, or an empty string to indicate anonymous simple authentication.

* "password" -- The password to use to bind to the server. If this field is present, then its value must be a string that contains the clear-text password, or an empty string to indicate anonymous simple authentication. If it is not provided, then the "password-file" field must be used to specify the path to a file containing the bind password.

* "password-file" -- The path to a file containing the password to use to bind to the server. If this field is present, then its value must be a string that represents the path to a file containing a single line that contains the clear-text password. If it is not provided, then the "password" field must be used to specify the password.

For example:

```
{
  "server-details":
  {
    "single-server":
    {
      "address":"ldap.example.com",
      "port":389
    }
  },
  "authentication-details":
  {
    "authentication-type":"simple",
    "dn":"uid=john.doe,ou=People,dc=example,dc=com",
    "password-file":"/path/to/password.txt"
  }
}
```

The "CRAM-MD5" Authentication Type

If you wish to authenticate connections with the CRAM-MD5 SASL mechanism, then you can specify an "authentication-type" value of "CRAM-MD5". The following additional fields may be included in the "authentication-details" object for this authentication type:
"authentication-id" -- The authentication ID to use to bind. This field must be present, and its value must be a string containing the authentication ID. Authentication ID values typically take the form "dn:" followed by the user DN, or "u:" followed by the username.

"password" -- The password to use to bind to the server. If this field is present, then its value must be a string that contains the clear-text password, or an empty string to indicate anonymous simple authentication. If it is not provided, then the "password-file" field must be used to specify the path to a file containing the bind password.

"password-file" -- The path to a file containing the password to use to bind to the server. If this field is present, then its value must be a string that represents the path to a file containing a single line that contains the clear-text password. If it is not provided, then the "password" field must be used to specify the password.

For Example:

```
{
  "server-details":
  {
    "single-server":
    {
      "address":"ldap.example.com",
      "port":389
    }
  },
  "authentication-details":
  {
    "authentication-type":"CRAM-MD5",
    "authentication-id":"u:john.doe",
    "password-file"":"/path/to/password.txt"
  }
}
```

**The "DIGEST-MD5" Authentication Type**

If you wish to authenticate connections with the DIGEST-MD5 SASL mechanism, then you can specify an "authentication-type" value of "DIGEST-MD5". The following additional fields may be included in the "authentication-details" object for this authentication type:
* "authentication-id" -- The authentication ID to use to bind. This field must be present, and its value must be a string containing the authentication ID. Authentication ID values typically take the form "dn:" followed by the user DN, or "u:" followed by the username.
* "authorization-id" -- The alternate authorization identity to use for the connection after the bind has completed. If present, the value must be a string containing the desired authorization identity. If this field is absent, then no alternate authorization identity will be used.
* "password" -- The password to use to bind to the server. If this field is present, then its value must be a string that contains the clear-text password, or an empty string to indicate anonymous simple authentication. If it is not provided, then the "password-file" field must be used to specify the path to a file containing the bind password.
* "password-file" -- The path to a file containing the password to use to bind to the server. If this field is present, then its value must be a string that represents the path to a file containing a single line that contains the clear-text password. If it is not provided, then the "password" field must be used to specify the password.
* "realm" -- The realm to use for the bind request. If this field is present, then its value must be a string containing the name of the realm. If it is not provided, then the realm will not be included in the bind request.
* "qop" -- The allowed quality of protection value(s) that may be used for the bind operation. If this field is present, then its value may be a single string or an array of strings indicating the allowed QoP values. Allowed values include "auth" (for just authentication), "auth-int" (for authentication followed by integrity protection for subsequent communication on the connection), and "auth-conf" (for authentication followed by confidentiality for subsequent communication on the connection). If this field is not present, then a default value of "auth" will be assumed.

For Example:

```json
{
  "server-details":
  }
```

"server-details":
Open Source Used In cnBR Operations Hub 22.2 18204

* { } * 
* "single-server": 
* { } * 
* "address":"ldap.example.com", 
* "port":389 
* } 
* }, 
* "authentication-details": 
* } 
* "authentication-type":"DIGEST-MD5", 
* "authentication-id":"u:john.doe", 
* "password-file":"/path/to/password.txt" 
* } 
* } 
* } </PRE>

**The "EXTERNAL" Authentication Type**

If you wish to authenticate connections with the EXTERNAL SASL mechanism,
then you can specify an "authentication-type" value of "EXTERNAL". The
connection must be secured with SSL or StartTLS, and the following additional
field may be present in the "authentication-details" object:

* <UL>
  * <LI>
    * "authorization-id" -- The authorization identity for the bind request.
    * If this field is present, then it must be a string containing the
desired authorization ID, or an empty string if the server should
determine the authorization identity. If this field is omitted, then
the bind request will not include any SASL credentials, which may be
required for use with some servers that cannot handle the possibility of
an authorization ID in the bind request.
  * </LI>
* </UL>

For Example:

* <PRE>
* { } 
* "server-details": 
* { } 
* "single-server": 
* { 
* "address":"ldap.example.com", 
* "port":636 
* } 
* }, 
* "communication-security": 
* { } 
* "security-type":"SSL", 
* "use-jvm-default-trust-store":true, 
* "trust-store-file":"/path/to/trust-store.jks",
"trust-store-type":"JKS",
"verify-address-in-certificate":true
},
"authentication-details":
{
"authentication-type":"EXTERNAL",
"authorization-id":"
}

</PRE>
</BR>
<B>The "GSSAPI" Authentication Type</B>
If you wish to authenticate connections with the GSSAPI SASL mechanism,
then you can specify an "authentication-type" value of "GSSAPI". The
following additional fields may be included in the "authentication-details"
object for this authentication type:

<UL>
  <LI>
    "authentication-id" -- The authentication ID to use to bind. This field
    must be present, and its value must be a string containing the
    authentication ID. Authentication ID values for a GSSAPI bind request
    are typically the Kerberos principal for the user to authenticate.
  </LI>
  <LI>
    "authorization-id" -- The alternate authorization identity to use for the
    connection after the bind has completed. If present, the value must be
    a string containing the desired authorization identity. If this field is
    absent, then no alternate authorization identity will be used.
  </LI>
  <LI>
    "password" -- The password to use to bind to the server. If this field
    is present, then its value must be a string that contains the clear-text
    password, or an empty string to indicate anonymous simple
    authentication. If it is not provided, then the "password-file" field
    may be used to specify the path to a file containing the bind password.
    If authentication will require the use of cached credentials, then the
    password may be omitted.
  </LI>
  <LI>
    "password-file" -- The path to a file containing the password to use to
    bind to the server. If this field is present, then its value must be a
    string that represents the path to a file containing a single line that
    contains the clear-text password. If it is not provided, then the
    "password" field may be used to specify the password. If authentication
    will require the use of cached credentials, then the password may be
    omitted.
  </LI>
</UL>
* "realm" -- The realm to use for the bind request. If this field is present, then its value must be a string containing the name of the realm. If it is not provided, then the JVM will attempt to determine the realm from the underlying system configuration.

* </LI>
* </LI>
* "qop" -- The allowed quality of protection value(s) that may be used for the bind operation. If this field is present, then its value may be a single string or an array of strings indicating the allowed QoP values. Allowed values include "auth" (for just authentication), "auth-int" (for authentication followed by integrity protection for subsequent communication on the connection), and "auth-conf" (for authentication followed by confidentiality for subsequent communication on the connection). If this field is not present, then a default value of "auth" will be assumed.

* </LI>
* </LI>
* "kdc-address" -- The address of the Kerberos KDC to use during authentication. If this field is present, then its value must be a string containing the target address. If it is not provided, then the JVM will attempt to determine the address of the KDC from the underlying system configuration.

* </LI>
* </LI>
* "config-file-path" -- The path to a JAAS configuration file to use for bind processing. If this field is present, then its value must be a string containing the path to a valid JAAS configuration file. If it is not provided, a temporary JAAS configuration file will be created for the bind operation.

* </LI>
* </LI>
* "renew-tgt" -- Indicates whether successful authentication should attempt to renew the ticket-granting ticket for an existing session. If this field is present, then its value must be a boolean. If it is not provided, then a default of { @code false } will be assumed.

* </LI>
* </LI>
* "require-cached-credentials" -- Indicates whether the authentication process should require the use of cached credentials leveraged from an existing Kerberos session rather than try to create a new session. If this field is present, then its value must be a boolean. If it is not provided, then a default of { @code false } will be assumed.

* </LI>
* </LI>
* "use-ticket-cache" -- Indicates whether the authentication process should leverage a ticket cache in order to leverage an existing Kerberos session if the user has already authenticated to the KDC. If present, then its value must be a boolean. If it is not provided, then a default
of \{@code true\} will be used.

* </LI>
* </UL>
* "ticket-cache-path" -- Specifies the path to the Kerberos ticket cache to
* use. If this is provided, its value must be a string with the path to
* the desired ticket cache. If it is not provided, then the JVM will
* attempt to determine the appropriate ticket cache from the underlying
* system configuration.
* </LI>
* </UL>
* "use-subject-credentials-only" -- Indicates whether authentication should
* require the client will be required to use credentials that match the
* current subject. If it is provided, then the value must be a boolean.
* If it is not provided, then a default of \{@code true\} will be assumed.
* </LI>
* </UL>
* For Example:
* <PRE>
* { 
*   "server-details": 
*   { 
*     "single-server": 
*     { 
*       "address":"ldap.example.com",
*       "port":389 
*     } 
*   },
*   "authentication-details": 
*   { 
*     "authentication-type":"GSSAPI",
*     "authentication-id":"john.doe@EXAMPLE.COM",
*     "password-file":="/path/to/password.txt",
*     "renew-tgt":true 
*   } 
* } 
* </PRE>
* <BR>
* <B>The "PLAIN" Authentication Type</B>
* If you wish to authenticate connections with the PLAIN SASL mechanism,
* then you can specify an "authentication-type" value of "PLAIN". The
* following additional fields may be included in the "authentication-details"
* object for this authentication type:
* </UL>
* </LI>
* </UL>
* "authentication-id" -- The authentication ID to use to bind. This field
* must be present, and its value must be a string containing the
* authentication ID. Authentication ID values typically take the form
* "dn:" followed by the user DN, or "u:" followed by the username.
* "authorization-id" -- The alternate authorization identity to use for the connection after the bind has completed. If present, the value must be a string containing the desired authorization identity. If this field is absent, then no alternate authorization identity will be used.

* "password" -- The password to use to bind to the server. If this field is present, then its value must be a string that contains the clear-text password, or an empty string to indicate anonymous simple authentication. If it is not provided, then the "password-file" field must be used to specify the path to a file containing the bind password.

* "password-file" -- The path to a file containing the password to use to bind to the server. If this field is present, then its value must be a string that represents the path to a file containing a single line that contains the clear-text password. If it is not provided, then the "password" field must be used to specify the password.

* For Example:

```json
{
  "server-details": {
    "single-server": {
      "address": "ldap.example.com",
      "port": 389
    }
  },
  "authentication-details": {
    "authentication-type": "PLAIN",
    "authentication-id": "dn:uid=john.doe,ou=People,dc=example,dc=com",
    "password-file": "/path/to/password.txt"
  }
}
```

The "authentication-details" field is optional, and if it is omitted from the specification then no authentication will be performed.

The "connection-pool-options" section may be used to provide information about a number of settings that may be used in the course of creating or...
* maintaining a connection pool. The value of the "connection-pool-options" field must be a JSON object, and the following fields may appear in that object:

* <UL>
  * "create-if-necessary" -- Indicates whether the connection pool should create a new connection if one is needed but none are available. If present, the value must be a boolean. If it is absent, then a default of `{ @code true }` will be assumed.
  *
  * "health-check-get-entry-dn" -- The DN of an entry that should be retrieved during health check processing. If present, the value must be a string that represents the DN of the entry to retrieve, or an empty string to indicate that the server root DSE should be retrieved. If this field is absent, then no entry will be retrieved during health check processing.
  *
  * "health-check-get-entry-maximum-response-time-millis" -- The maximum length of time in milliseconds to wait for the entry to be returned in a get entry health check. If present, the value must be a positive integer. If it is not provided, then a default of 10000 (ten seconds) will be used.
  *
  * "initial-connect-threads" -- The number of threads to use when creating the initial set of connections for the pool. If this field is present, then the value must be a positive integer, with a value of one indicating that connection should be created in a single-threaded manner, and a value greater than one indicating that the initial connections should be established in parallel. If it is not provided, then a default of one will be used.
  *
  * "invoke-background-health-checks" -- Indicates whether the connection pool should periodically invoke health check processing on idle connections. If this field is present, then its value must be a boolean. If it is not present, then a default of `{ @code true }` will be assumed.
  *
  * "invoke-checkout-health-checks" -- Indicates whether the connection pool should invoke health check processing on connections just before they are checked out of the pool to ensure that they are valid. If this field is present, then its value must be a boolean. If it is not present, then a default of `{ @code false }` will be assumed.
* "invoke-create-health-checks" -- Indicates whether the connection pool should invoke health check processing on connections just after they are created. If this field is present, then its value must be a boolean. If it is not present, then a default of `{@code false}` will be assumed.
* </LI>
* <LI>
* "invoke-authentication-health-checks" -- Indicates whether the connection pool should invoke health check processing on connections just after they have been authenticated. This includes after a successful bind on a newly-created connection, and after calls to the connection pool's `@code bindAndRevertAuthentication` and `@code releaseAndReAuthenticateConnection` methods. If this field is present, then its value must be a boolean. If it is not present, then a default of `{@code false}` will be assumed.
* </LI>
* <LI>
* "invoke-exception-health-checks" -- Indicates whether the connection pool should invoke health check processing on connections just after an exception is caught that might indicate that the connection is no longer valid. Note that this only applies to exceptions caught during operations processed directly against the connection pool and not to exceptions caught on a connection checked out of the pool. If this field is present, then its value must be a boolean. If it is not present, then a default of `{@code true}` will be assumed.
* </LI>
* <LI>
* "invoke-release-health-checks" -- Indicates whether the connection pool should invoke health check processing on connections just before they are released back to the pool to ensure that they are valid. If this field is present, then its value must be a boolean. If it is not present, then a default of `{@code false}` will be assumed.
* </LI>
* <LI>
* "maximum-connection-age-millis" -- Specifies the maximum length of time (in milliseconds) that a connection should be allowed to remain established before it is eligible to be closed and replaced with a newly-created connection. If present, then the value must be a positive integer to specify the maximum age, or zero to indicate that no maximum age should be applied. If it is not present, then a default value of zero will be used.
* </LI>
* <LI>
* "maximum-defunct-replacement-connection-age-millis" -- Specifies the maximum connection age (in milliseconds) that should be used for connections created to replace a defunct connection. If present, then the value must be a positive integer to specify the maximum age, or zero to indicate that no maximum age should be applied. If it is not present, then the value of the "maximum-connection-age-millis" field will be used.
for connections created as replacements for defunct connections.

"maximum-wait-time-millis" -- Specifies the maximum length of time (in milliseconds) that the pool should wait for a connection to be released if one is needed but none are immediately available. If present, then this value must be a positive integer to specify the length of time to wait, or zero to indicate that it should not wait at all. If it is not provided, then a default value of zero will be used.

"retry-failed-operations-due-to-invalid-connections" -- Indicates whether the pool should automatically attempt to retry operations attempted directly against the pool (but not for connections checked out of the pool) if the initial attempt fails in a manner that may indicate that the connection is no longer valid. If this field is present, then its value may be either a boolean to indicate whether to enable retry for all types of operations or no operations, or it may be an array of strings indicating the operation types ("add", "bind", "compare", "delete", "extended", "modify", "modify-dn", or "search") that should be retried in the event of a failure. If this field is not present, then no automatic retry will be attempted.

The "connection-pool-options" field is optional, and if it is omitted from the specification then the default values will be used for all options.

*/

Found in path(s):
* /opt/cola/permits/13397522361_1654599325.3077846/0/unboundid-lodpsdk-6-0-3-sources-jar/com/unboundid/util/json/LDAPConnectionDetailsJSONSpecification.java

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* You should have received a copy of the GNU General Public License
* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This class defines a failed dependency action, which controls how a task
* should behave if any of its dependencies fails.
* <BR>
* <BLOCKQUOTE>
* NOTE: This class, and other classes within the
* com.unboundid.ldap.sdk.unboundidds package structure, are only
* supported for use against Ping Identity, UnboundID, and
* Nokia/Alcatel-Lucent 8661 server products. These classes provide support
* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
*/
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 */

/**
 * This class defines a monitor entry that provides information about the state
 * of the UnboundID work queue. This has replaced the traditional work queue as
 * the default work queue implementation used by the Directory Server
 * <BR>
 * <BR>
 * <BLOCKQUOTE>
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The monitor information that it may make available includes:

- The number of requests that were rejected because the work queue was already at its maximum capacity.
- The number of operations currently held in the work queue waiting to be picked for processing by a worker thread.
- The average number of operations held in the work queue since startup as observed from periodic polling.
- The maximum number of operations held in the work queue at any time since startup as observed from periodic polling.

The server should present at most one UnboundID work queue monitor entry. It can be retrieved using the \{@link MonitorManager#getUnboundIDWorkQueueMonitorEntry\} method. This entry provides specific methods for accessing information about the state of the work queue (e.g., the \{@link UnboundIDWorkQueueMonitorEntry#getCurrentSize\} method may be used to retrieve the number of operations currently held in the work queue).

Alternatively, this information may be accessed using the generic API. See the \{@link MonitorManager\} class documentation for an example that demonstrates the use of the generic API for accessing monitor data.

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/**
* This enum defines the security level values that may be used in conjunction
* with the collect-support-data tool (and the corresponding administrative
* task and extended operation).
* <BR>
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/*
This class provides an implementation of a matching rule that can be used in conjunction with JSON objects.

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 */

/**
 * This class defines an exception that may be thrown while interacting with
 * scheduled tasks.
 * <BR>
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* interoperable way with other types of LDAP servers.
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/TaskException.java
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/**
* This class defines a monitor entry that provides information about the result
* codes returned from various types of operations.
* <BR>
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/listener/ProxySearchResultListener.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncStateControl.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/listener/LDAPListenerRequestHandler.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/listener/SearchEntryTransformer.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/listener/package-info.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/extensions/EndTransactionExtendedResult.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/extensions/StartTransactionExtendedRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncRequestMode.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoIntermediateResponse.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoType.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoIntermediateResponse.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoType.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncStateControl.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoIntermediateResponse.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoType.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncModeRequestControl.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoIntermediateResponse.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoIntermediateResponse.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoType.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncModeRequestControl.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoIntermediateResponse.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoType.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoIntermediateResponse.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources.jar/com/unboundid/ldap/sdk/controls/ContentSyncInfoType.java

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jar/com/unboundid/util/args/BooleanValueArgument.java
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jar/com/unboundid/ldap/listener/LDAPDebuggerRequestHandler.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/controls/ContentSyncRequestControl.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/examples/SearchAndModRateThread.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/listener/SearchReferenceTransformer.java
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jar/com/unboundid/ldap/sdk/controls/ContentSyncDoneControl.java
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jar/com/unboundid/util/args/ScopeArgument.java
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jar/com/unboundid/ldap/sdk/extensions/EndTransactionExtendedRequest.java
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jar/com/unboundid/util/FixedArrayOutputStream.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/listener/LDAPListenerClientConnection.java

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/**
* This class provides a utility that may be used to request that the Directory
* Server deliver a one-time password to a user through some out-of-band
* mechanism.
* <BR>
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 */

/*
 * This enum specifies the modes in which the get password quality requirements
 * extended operation may determine the type of password update operation that
 * will be performed and the way in which the server should determine which
 * password policy to use in order to obtain the password quality requirements.
 * <BR>
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*/
/**
* This class provides a set of utility methods for formatting operation
* results.
* <BR>
* <BLOCKQUOTE>
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  jar/com/unboundid/ldap/sdk/unboundidds/tools/ResultUtils.java
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This class implements an extended result that may be returned in response to a `PurgeRetiredListenerCertificatesExtendedRequest`. See the `ReplaceCertificateExtendedResult` class for a description of the content for the result.

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This class defines a Directory Server task that simply sleeps for a specified
length of time or until a given condition occurs. It is primarily intended
to act as a separator between other tasks in a dependency chain.

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*/
/**
* This class provides a set of properties that can be used in conjunction with
* the [@link PasswordUpdateBehaviorRequestControl].
* <BR>
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  jar/com/unboundid/ldap/sdk/unboundidds/controls/PasswordUpdateBehaviorRequestControlProperties.java
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/**
* This class provides an implementation of an extended result that can be used
* to retrieve a list of all available versions of the configuration within a
* server.  This may include not only the currently-active configuration, but
* also former configurations that have been archived, and the baseline
* configuration for the current server version.
* <BR>
* <BLOCKQUOTE>
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* <BR>
* The OID for this extended result is 1.3.6.1.4.1.30221.2.6.27. If the request
* was processed successfully, then the response will have a value with the
* following encoding:
* <PRE>
* ListConfigurationsResult ::= SEQUENCE {
*        activeConfigFileName        [0] OCTET STRING,
*        baselineConfigFileNames     [1] OCTET STRING OPTIONAL,
*        archivedConfigFileNames     [2] SEQUENCE OF OCTET STRING OPTIONAL,
*        ... }
* </PRE>
*/
/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/ListConfigurationsExtendedResult.java

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This class provides a data structure that holds information about the result of a move subtree operation.

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This class provides a tool that can be used to perform repeated modifications
in an LDAP directory server using multiple threads. It can help provide an
estimate of the modify performance that a directory server is able to
achieve. The target entry DN may be a value pattern as described in the
[@link ValuePattern] class. This makes it possible to modify a range of
entries rather than repeatedly updating the same entry.

Some of the APIs demonstrated by this example include:

- Argument Parsing (from the {@code com.unboundid.util.args}
  package)</LI>
- LDAP Command-Line Tool (from the {@code com.unboundid.util}
  package)</LI>
- LDAP Communication (from the {@code com.unboundid.ldap.sdk}
  package)</LI>
- Value Patterns (from the {@code com.unboundid.util} package)</LI>
</UL>

All of the necessary information is provided using command line arguments.
Supported arguments include those allowed by the {@link LDAPCommandLineTool}
class, as well as the following additional arguments:

- "-b {entryDN}" or "--targetDN {baseDN}" -- specifies the DN of the
  entry to be modified. This must be provided. It may be a simple DN,
or it may be a value pattern to express a range of entry DNs.</LI>
- "-A {name}" or "--attribute {name}" -- specifies the name of the
  attribute to modify. Multiple attributes may be modified by providing
  multiple instances of this argument. At least one attribute must be
  provided.</LI>
- "--valuePattern {pattern}" -- specifies the pattern to use to generate
  the value to use for each modification. If this argument is provided,
  then neither the "--valueLength" nor "--characterSet" arguments may be
  given.</LI>
- "-l {num}" or "--valueLength {num}" -- specifies the length in bytes to
  use for the values of the target attributes. If this is not provided,
  then a default length of 10 bytes will be used.</LI>
- "-C {chars}" or "--characterSet {chars}" -- specifies the set of
  characters that will be used to generate the values to use for the
* target attributes. It should only include ASCII characters. Values
  will be generated from randomly-selected characters from this set. If
  this is not provided, then a default set of lowercase alphabetic
  characters will be used.</li>
* <li>"-t {num}" or "--numThreads {num}" -- specifies the number of
  concurrent threads to use when performing the modifications. If this
  is not provided, then a default of one thread will be used.</li>
* <li>"-i {sec}" or "--intervalDuration {sec}" -- specifies the length of
  time in seconds between lines out output. If this is not provided,
  then a default interval duration of five seconds will be used.</li>
* <li>"-I {num}" or "--numIntervals {num}" -- specifies the maximum number of
  intervals for which to run. If this is not provided, then it will
  run forever.</li>
* <li>"--iterationsBeforeReconnect {num}" -- specifies the number of modify
  iterations that should be performed on a connection before that
  connection is closed and replaced with a newly-established (and
  authenticated, if appropriate) connection.</li>
* <li>"-r {modifies-per-second}" or "--ratePerSecond {modifies-per-second}" --
  specifies the target number of modifies to perform per second. It
  is still necessary to specify a sufficient number of threads for
  achieving this rate. If this option is not provided, then the tool
  will run at the maximum rate for the specified number of threads.</li>
* <li>"--variableRateData {path}" -- specifies the path to a file containing
  information needed to allow the tool to vary the target rate over time.
  If this option is not provided, then the tool will either use a fixed
  target rate as specified by the "--ratePerSecond" argument, or it will
  run at the maximum rate.</li>
* <li>"--generateSampleRateFile {path}" -- specifies the path to a file to
  which sample data will be written illustrating and describing the
  format of the file expected to be used in conjunction with the
  "--variableRateData" argument.</li>
* <li>"--warmUpIntervals {num}" -- specifies the number of intervals to
  complete before beginning overall statistics collection.</li>
* <li>"--timestampFormat {format}" -- specifies the format to use for
  timestamps included before each output line. The format may be one of
  "none" (for no timestamps), "with-date" (to include both the date and
  the time), or "without-date" (to include only time).</li>
* <li>"-Y {authzID}" or "--proxyAs {authzID}" -- Use the proxied
  authorization v2 control to request that the operation be processed
  using an alternate authorization identity. In this case, the bind DN
  should be that of a user that has permission to use this control. The
  authorization identity may be a value pattern.</li>
* <li>"--suppressErrorResultCodes" -- Indicates that information about the
  result codes for failed operations should not be displayed.</li>
* <li>"-c" or "--csv" -- Generate output in CSV format rather than a
  display-friendly format.</li>
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 */

/**
 * This enum defines an assurance level that may be used for servers in the
 * same location as the server receiving the change.
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
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 */
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a delete
* request forwarded to a backend server.
* </BR>
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  jar/com/unboundid/ldap/sdk/unboundidds/logs/DeleteForwardAccessLogMessage.java
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* /
**
** This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a the
* result of an entry rebalancing operation.
* <BR>
* <BLOCKQUOTE>
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jar/com/unboundid/ldap/sdk/unboundidds/logs/EntryRebalancingResultAccessLogMessage.java
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/**
* This class provides a data structure that contains information about a
* replica contained in a replication summary monitor entry.
* <BR>
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  jar/com/unboundid/ldap/sdk/unboundidds-monitors/ReplicationSummaryReplica.java
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This class provides a mechanism for ensuring that manage-account arguments used to identify which entries to process by filter or user ID are handled properly. It will perform searches to identify matching entries, and those entries will be provided to a `ManageAccountProcessor` to ensure that the appropriate password policy state operation is invoked for them.

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/**
* This class performs the work needed to process a search operation as part of
* manage-account processing.
* <BR>
* <BLOCKQUOTE>
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* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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/*/
Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6.0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/ManageAccountSearchOperation.java

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/*
 * This class provides an implementation of a JSON object filter that can be
 * used to identify JSON objects containing a specified field, optionally
 * restricting it by the data type of the value.
 * <BR>
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 * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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The fields that are required to be included in a "contains field" filter are:

- `{@code field}` -- A field path specifier for the JSON field for which to make the determination. This may be either a single string or an array of strings as described in the "Targeting Fields in JSON Objects" section of the class-level documentation for `JSONObjectFilter`.

The fields that may optionally be included in a "contains field" filter are:

- `{@code expectedType}` -- Specifies the expected data type for the value of the target field. If this is not specified, then any data type will be permitted. If this is specified, then the filter will only match a JSON object that contains the specified `{@code fieldName}` if its value has the expected data type. The value of the `{@code expectedType}` field must be either a single string or an array of strings, and the only values allowed will be:

  - `{@code boolean}` -- Indicates that the value may be a Boolean value of `{@code true}` or `{@code false}`.
  - `{@code empty-array}` -- Indicates that the value may be an empty array.
  - `{@code non-empty-array}` -- Indicates that the value may be an array that contains at least one element. There will not be any constraints placed on the values inside of the array.
  - `{@code null}` -- Indicates that the value may be `{@code null}`.
  - `{@code number}` -- Indicates that the value may be a number.
  - `{@code object}` -- Indicates that the value may be a JSON object.
* </LI>
* </LI>
* [ @code string] -- Indicates that the value may be a string.
* </LI>
* </UL>
* </UL>
* <H2>Examples</H2>
* The following is an example of a "contains field" filter that will match any
* JSON object that includes a top-level field of "department" with any kind of
* value:
* <PRE>
* { "filterType" : "containsField",
*   "field" : "department" }
* </PRE>
* The above filter can be created with the code:
* <PRE>
* ContainsFieldJSONObjectFilter filter =
*   new ContainsFieldJSONObjectFilter("department");
* </PRE>
* <BR>
* The following is an example of a "contains field" filter that will match any
* JSON object with a top-level field of "first" whose value is a JSON object
* (or an array containing a JSON object) with a field named "second" whose
* value is a Boolean of either [ @code true] or [ @code false].
* <PRE>
* { "filterType" : "containsField",
*   "field" : [ "first", "second" ],
*   "expectedType" : "boolean" }
* </PRE>
* The above filter can be created with the code:
* <PRE>
* ContainsFieldJSONObjectFilter filter = new ContainsFieldJSONObjectFilter(
*   Arrays.asList("first", "second"),
*   EnumSet.of(ExpectedValueType.BOOLEAN));
* </PRE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/ContainsFieldJSONObjectFilter.java
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An enum that defines the possible values that may be used for the
* {@code expectedType} element of a {@link ContainsFieldJSONObjectFilter}.

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* </BLOCKQUOTE>
This class provides a tool that can be used to search an LDAP directory repeatedly using multiple threads, and then modify each entry returned by that server. It can help provide an estimate of the combined search and modify performance that a directory server is able to achieve.

Either or both of the base DN and the search filter may be a value pattern as described in the [ValuePattern](http://www.apache.org/licenses/LICENSE-2.0)

Some of the APIs demonstrated by this example include:
* <UL>
  * <LI>Argument Parsing (from the {@code com.unboundid.util.args} package)</LI>
  * <LI>LDAP Command-Line Tool (from the {@code com.unboundid.util} package)</LI>
  * <LI>LDAP Communication (from the {@code com.unboundid.ldap.sdk} package)</LI>
  * <LI>Value Patterns (from the {@code com.unboundid.util} package)</LI>
* </UL>

All of the necessary information is provided using command line arguments.
Supported arguments include those allowed by the {link LDAPCommandLineTool} class, as well as the following additional arguments:

* <UL>
  * <LI>"-b {baseDN}" or "--baseDN {baseDN}" -- specifies the base DN to use for the searches. This must be provided. It may be a simple DN, or it may be a value pattern to express a range of base DNs.</LI>
  * <LI>"-s {scope}" or "--scope {scope}" -- specifies the scope to use for the search. The scope value should be one of "base", "one", "sub", or "subord". If this isn't specified, then a scope of "sub" will be used.</LI>
  * <LI>"-f {filter}" or "--filter {filter}" -- specifies the filter to use for the searches. This must be provided. It may be a simple filter, or it may be a value pattern to express a range of filters.</LI>
  * <LI>"-A {name}" or "--attribute {name}" -- specifies the name of an attribute that should be included in entries returned from the server. If this is not provided, then all user attributes will be requested. This may include special tokens that the server may interpret, like "1.1" to indicate that no attributes should be returned, "*", for all user attributes, or "+" for all operational attributes. Multiple attributes may be requested with multiple instances of this argument.</LI>
  * <LI>"-m {name}" or "--modifyAttribute {name}" -- specifies the name of the attribute to modify. Multiple attributes may be modified by providing multiple instances of this argument. At least one attribute must be provided.</LI>
  * <LI>"-l {num}" or "--valueLength {num}" -- specifies the length in bytes to use for the values of the target attributes to modify. If this is not provided, then a default length of 10 bytes will be used.</LI>
  * <LI>"-C {chars}" or "--characterSet {chars}" -- specifies the set of characters that will be used to generate the values to use for the target attributes to modify. It should only include ASCII characters. Values will be generated from randomly-selected characters from this set. If this is not provided, then a default set of lowercase alphabetic characters will be used.</LI>
  * <LI>"-t {num}" or "--numThreads {num}" -- specifies the number of concurrent threads to use when performing the searches. If this is not provided, then a default of one thread will be used.</LI>
* </UL>
* `-i {sec}` or `--intervalDuration {sec}` -- specifies the length of time in seconds between lines out output. If this is not provided, then a default interval duration of five seconds will be used.</LI>
* `<LI>` `-I {num}` or `--numIntervals {num}` -- specifies the maximum number of intervals for which to run. If this is not provided, then it will run forever.</LI>
* `<LI>` `--iterationsBeforeReconnect {num}` -- specifies the number of search iterations that should be performed on a connection before that connection is closed and replaced with a newly-established (and authenticated, if appropriate) connection.</LI>
* `<LI>` `--iterationsBeforeReconnect {num}` -- specifies the number of search iterations that should be performed on a connection before that connection is closed and replaced with a newly-established (and authenticated, if appropriate) connection.</LI>
* `<LI>` `--ratePerSecond {ops-per-second}` -- specifies the target number of operations to perform per second. Each search and modify operation will be counted separately for this purpose, so if a value of 1 is specified and a search returns two entries, then a total of three seconds will be required (one for the search and one for the modify for each entry). It is still necessary to specify a sufficient number of threads for achieving this rate. If this option is not provided, then the tool will run at the maximum rate for the specified number of threads.</LI>
* `<LI>` `--variableRateData {path}` -- specifies the path to a file containing information needed to allow the tool to vary the target rate over time. If this option is not provided, then the tool will either use a fixed target rate as specified by the `--ratePerSecond` argument, or it will run at the maximum rate.</LI>
* `<LI>` `--variableRateData {path}` -- specifies the path to a file containing information needed to allow the tool to vary the target rate over time. If this option is not provided, then the tool will either use a fixed target rate as specified by the `--ratePerSecond` argument, or it will run at the maximum rate.</LI>
* `<LI>` `--warmUpIntervals {num}` -- specifies the number of intervals to complete before beginning overall statistics collection.</LI>
* `<LI>` `--timestampFormat {format}` -- specifies the format to use for timestamps included before each output line. The format may be one of "none" (for no timestamps), "with-date" (to include both the date and the time), or "without-date" (to include only time time).</LI>
* `<LI>` `--Y {authzID}` or `--proxyAs {authzID}` -- Use the proxied authorization v2 control to request that the operations be processed using an alternate authorization identity. In this case, the bind DN should be that of a user that has permission to use this control. The authorization identity may be a value pattern.</LI>
* `<LI>` `--suppressErrorResultCodes` -- Indicates that information about the result codes for failed operations should not be displayed.</LI>
* `<LI>` `--c` or `--csv` -- Generate output in CSV format rather than a display-friendly format.</LI>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources
jar/com/unboundid/ldap/sdk/examples/SearchAndModRate.java

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 */

/**
 * This class provides a request control which may be used to request that the
 * associated request be routed to a specific server. It is primarily intended
 * for use when the request will pass through a Directory Proxy Server to
 * indicate that which backend server should be used to process the request.
 * The server ID for the server to use may be obtained using the
 * [ @link GetServerIDRequestControl ].
 * <BR>
 * <BLOCKQUOTE>
 * <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only  
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* <BR>

* If the request is processed successfully, then the result should include a  
* {@link GetServerIDResponseControl} with the server ID of the server that was  
* used to process the request. It may or may not be the same as the server ID  
* included in the request control, depending on whether an alternate server was  
* determined to be better suited to handle the request.

* </BLOCKQUOTE>

* <BR><BR>

* The criticality for this control may be either {@code true} or {@code false}.

* It must have a value with the following encoding:

* <PRE>
* RouteToServerRequest ::= SEQUENCE {
*     serverID                    [0] OCTET STRING,
*     allowAlternateServer        [1] BOOLEAN,
*     preferLocalServer           [2] BOOLEAN DEFAULT TRUE,
*     preferNonDegradedServer     [3] BOOLEAN DEFAULT TRUE,
*     ... }
* </PRE>

* <BR><BR>

* <H2>Example</H2>

* The following example demonstrates the process of performing a search to  
* retrieve an entry using the get server ID request control and then sending a  
* modify request to that same server using the route to server request control.

* <PRE>
* // Perform a search to find an entry, and use the get server ID request  
* // control to figure out which server actually processed the request.
* SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",  
*      SearchScope.BASE, Filter.createPresenceFilter("objectClass"),  
*      "description");
* searchRequest.addControl(new GetServerIDRequestControl());
* 
* SearchResultEntry entry = connection.searchForEntry(searchRequest);
* GetServerIDResponseControl serverIDControl =  
*      GetServerIDResponseControl.get(entry);
* String serverID = serverIDControl.getServerID();
* 
* // Send a modify request to update the target entry, and include the route  
* // to server request control to request that the change be processed on the  
* // same server that processed the request.
* ModifyRequest modifyRequest = new ModifyRequest("dc=example,dc=com",  
*      new Modification(ModificationType.REPLACE, "description",  
*      "new description value");

```java
// Perform a search to find an entry, and use the get server ID request
// control to figure out which server actually processed the request.
SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",  
      SearchScope.BASE, Filter.createPresenceFilter("objectClass"),  
      "description");
searchRequest.addControl(new GetServerIDRequestControl());

SearchResultEntry entry = connection.searchForEntry(searchRequest);
GetServerIDResponseControl serverIDControl =  
      GetServerIDResponseControl.get(entry);
String serverID = serverIDControl.getServerID();

// Send a modify request to update the target entry, and include the route  
// to server request control to request that the change be processed on the  
// same server that processed the request.
ModifyRequest modifyRequest = new ModifyRequest("dc=example,dc=com",  
      new Modification(ModificationType.REPLACE, "description",  
      "new description value");
```
modifyRequest.addControl(new RouteToServerRequestControl(false, serverID, true, true, true));
LDAPResult modifyResult = connection.modify(modifyRequest);
</PRE>

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/RouteToServerRequestControl.java
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 */
/**
 * This class provides a data structure that holds information about a log
message that may appear in the Directory Server access log about a modify DN request forwarded to a backend server.

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* accuracy or fitness for a particular purpose. See the License for the
* specific language governing permissions and limitations under the License.
This enum defines a set of values that provide information about the result of validation processing that the server performed in response to a UniquenessRequestControl.  

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This class provides an implementation of a get changelog batch change
selection criteria value that indicates that the server should only return
changes that are associated with a specified notification destination, as
specified by the entryUUID for the notification destination to target.

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*/
/**
* This class provides an implementation of the proxied authorization V1
* request control, which may be used to request that the associated operation
* be performed as if it had been requested by some other user. It is based on
* the specification provided in early versions of the
* draft-weltman-ldapv3-proxy Internet Draft (this implementation is based on
* the "-04" revision). Later versions of the draft, and subsequently
* version of the proxied authorization control with a different OID and
* different value format. This control is supported primarily for legacy
* purposes, and it is recommended that new applications use the
* [@link ProxiedAuthorizationV2RequestControl] instead if this version.
* <BR><BR>
* The value of this control includes the DN of the user as whom the operation
* should be performed. Note that it should be a distinguished name, and not an
* authzId value as is used in the proxied authorization V2 control.
* <BR><BR>
* This control may be used in conjunction with add, delete, compare, delete,
* extended, modify, modify DN, and search requests. In that case, the
* associated operation will be processed under the authority of the specified
* authorization identity rather than the identity associated with the client
* connection (i.e., the user as whom that connection is bound). Note that
* because of the inherent security risks associated with the use of the proxied
* authorization control, most directory servers which support its use enforce
* strict restrictions on the users that are allowed to request this control.
* Note that while the directory server should return a
* [ResultCode#AUTHORIZATION_DENIED] result for a proxied authorization V2
* control if the requester does not have the appropriate permission to use that
* control, this result will not necessarily be used for the same condition with
* the proxied authorization V1 control because this result code was not defined
* until the release of the proxied authorization V2 specification.
* code.
* <BR><BR>
* There is no corresponding response control for this request control.
* <BR><BR>
* <H2>Example</H2>
* The following example demonstrates the use of the proxied authorization V1
* control to delete an entry under the authority of the user with DN
* "uid=alternate.user,ou=People,dc=example,dc=com":
* <PRE>
* // Create a delete request to delete an entry. Include the proxied
* // authorization V1 request control in the delete request so that the
* // delete will be processed as user
* // "uid=alternate.user,ou=People,dc=example,dc=com" instead of the user
* // that's actually authenticated on the connection.
* DeleteRequest deleteRequest =
*     new DeleteRequest("uid=test.user,ou=People,dc=example,dc=com");
* deleteRequest.addControl(new ProxiedAuthorizationV1RequestControl(
*     "uid=alternate.user,ou=People,dc=example,dc=com");
*
* LDAPResult deleteResult;
* try
* {
*     deleteResult = connection.delete(deleteRequest);
*     // If we got here, then the delete was successful.
* }
* catch (LDAPException le)
* {
*     // The delete failed for some reason. In addition to all of the normal
*     // reasons a delete could fail (e.g., the entry doesn't exist, or has one
*     // or more subordinates), proxied-authorization specific failures may
*     // include that the authenticated user doesn't have permission to use the
*     // proxied authorization control to impersonate the alternate user, that
*     // the alternate user doesn't exist, or that the alternate user doesn't
*     // have permission to perform the requested operation.
*     deleteResult = le.toLDAPResult();
*     ResultCode resultCode = le.getResultCode();
*     String errorMessageFromServer = le.getDiagnosticMessage();
* }
* </PRE>
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/**
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about the result
 * of replication assurance processing for a modify operation.
 * <BR>
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/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyAssuranceCompletedAccessLogMessage.java

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 */

/**
This enum describes the mechanism that the server should use when selecting
the password policy to use (for its password generator and validators) while
processing a [link GeneratePasswordExtendedRequest].

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jar/com/unboundid/ldap/sdk/unboundidds/extensions/GeneratePasswordPolicySelectionType.java
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This class provides an implementation of an extended result that can be used

to retrieve backup compatibility data for a Directory Server backend.

The OID for this extended result is 1.3.6.1.4.1.30221.2.6.31. If the request
was processed successfully, then the response will have a value with the
following encoding:

GetBackupCompatibilityDescriptorResult ::= SEQUENCE {
    descriptor     [0] OCTET STRING,
    properties     [1] SEQUENCE OF OCTET STRING OPTIONAL,
    ... }

@see GetBackupCompatibilityDescriptorExtendedRequest
@see IdentifyBackupCompatibilityProblemsExtendedRequest

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetBackupCompatibilityDescriptorExtendedResult.java

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Licensed under the Apache License, Version 2.0 (the "License");
This class defines a monitor entry that provides information about the memory usage for the JVM in which the Directory Server is running. In particular, it reports information about the memory pools and garbage collectors defined in the JVM.

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* The number of bytes used within each memory pool after the last garbage collection.
* The names of the garbage collectors that are in use within the JVM.
* The number of garbage collections performed by each collector.
* The total duration of all garbage collections performed by each collector.
* The average duration of garbage collections performed by each collector.
* The duration of the most recent garbage collection performed by each collector.
* The amount of non-heap memory consumed by the JVM.
* The number of detected pauses of various durations detected by the server.
* The duration of the longest pause detected by the server.

The server should present at most one memory usage monitor entry. It can be retrieved using the `MonitorManager#getMemoryUsageMonitorEntry` method. This entry provides specific methods for accessing information about JVM memory usage (e.g., the `MemoryUsageMonitorEntry#getMemoryPoolNames` method can be used to retrieve the names of the memory pool). Alternately, this information may be accessed using the generic API. See the `MonitorManager` class documentation for an example that demonstrates the use of the generic API for accessing monitor data.

```
*/

Found in path(s):
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/monitors/MemoryUsageMonitorEntry.java

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 */

/**
 * This class defines a monitor entry that provides information about the group
 * cache and the number and types of groups available in the server.
 */

/*
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* jar/com/unboundid/ldap/sdk/unboundidds/monitors/GroupCacheMonitorEntry.java

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*/
/**
* This enum defines the output stream values that may be used in conjunction
* with the {@link CollectSupportDataOutputIntermediateResponse}.  
* <BR>
* <BLOCKQUOTE>
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*
* @see CollectSupportDataExtendedRequest
* @see CollectSupportDataOutputIntermediateResponse
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/CollectSupportDataOutputStream.java
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 */

/**
 * This class defines a Directory Server task that can be used to cause it to
 * generate a server profile in a specified location on the server filesystem.
 * The profile may be created in a directory structure or packaged in a zip
 * file.
 */

\* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
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* </BLOCKQUOTE>
* `<BR>`
* The properties that are available for use with this type of task include:
* `<UL>`
* `<LI>`
* The path on the server filesystem to the location in which the generated
* server profile should be written. If the profile is to be packaged into
* a zip file, then this may either be the path to the zip file to create
* (which must not yet exist, although its parent directory must exist) or
* the path to the directory (which must already exist) in which the zip
* file will be created with a server-generated name. If the profile is
* not to be packaged into a zip file, then this must be the path to the
* directory in which the profile will be written, and either that
* directory must exist and be empty or it must not exist but its parent
* directory must exist. In either case, the path provided may be an
* absolute path, or it may be a relative path that is interpreted as
* relative to the instance root. If this property is not provided, then
* the zip file or profile directory will be created in the instance root
* with a server-generated name.
* </LI>
* `<LI>`
* An optional set of additional paths to files or directories within the
* instance root that should be included in the server profile. These may
* be specified as either absolute paths or relative paths that will be
* interpreted as relative to the instance root, but the paths must refer
* to files or directories that exist beneath the instance root. If this is
* omitted, then no additional include paths will be used.
* </LI>
* `<LI>`
* A flag indicating whether the generated server profile should be packaged
* into a zip file. If this is omitted, then the server will determine
* whether to package the profile into a zip file.
* </LI>
* `<LI>`
* Optional properties indicating the number and/or age of previous profile
* zip files to retain. These options may only be used if the profile is
* to be packaged into a zip file, and if the name of the zip file will be
* generated by the server.
* </LI>
* </UL>

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tasks/GenerateServerProfileTask.java

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 */
/**
 * This class provides an implementation of the real attributes only request
 * control, which may be included in a search request to indicate that only
 * real (i.e., non-virtual) attributes should be included in matching entries.
 * <BR>
 */

/*<BLOCKQUOTE>
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 */
This control is not based on any public standard, but was first introduced in the Netscape/iPlanet Directory Server. It is also supported in the Sun Java System Directory Server, OpenDS, and the Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 Directory Server. It does not have a value.

The following example demonstrates the use of the real attributes only request control:

```java
SearchRequest searchRequest = new SearchRequest("dc=example,dc=com",
      SearchScope.SUB, Filter.createEqualityFilter("uid", "john.doe");

searchRequest.addControl(new RealAttributesOnlyRequestControl());
SearchResult searchResult = connection.search(searchRequest);
```

Example

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This class provides an implementation of an LDAP control which can be
included in a search request to indicate that search result entries should be
returned along with related entries based on a given set of criteria, much
like an SQL join in a relational database.

This request control has an OID of 1.3.6.1.4.1.30221.2.5.9, and the
criticality is generally true. It must have a value, and the format of that
value is described in the class-level documentation for the
{@link JoinRequestValue} class.

Consider the case in which user entries include an account number, but
additional information about those accounts are available in separate
entries. If you wish to retrieve both the user and account entries for a
user given only a user ID, then you may accomplish that using the join
request control as follows:

SearchRequest searchRequest = new SearchRequest(
   "ou=People,dc=example,dc=com", SearchScope.SUB,
   Filter.createEqualityFilter("uid", userID));
searchRequest.addControl(new JoinRequestControl(new JoinRequestValue(
   JoinRule.createEqualityJoin("accountNumber", "accountNumber", false),
   JoinBaseDN.createUseCustomBaseDN("ou=Accounts,dc=example,dc=com"),
   SearchScope.SUB, DereferencePolicy.NEVER, null,
   Filter.createEqualityFilter("objectClass", "accountEntry"),
   new String[0], false, null));
* SearchResult searchResult = connection.search(searchRequest);
* 
* for (SearchResultEntry userEntry : searchResult.getSearchEntries())
* {
*   JoinResultControl c = JoinResultControl.get(userEntry);
*   for (JoinedEntry accountEntry : c.getJoinResults())
*   {
*     // User userEntry was joined with account accountEntry
*   }
* }
* </PRE>
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/controls/JoinRequestControl.java
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This class provides an `{@link LDAPResultWriter} instance that simply prints the DNs of the entries that are returned, with a separate DN per line. There will not be any blank lines between DNs, and there will not be any prefix (for example, "dn:") before each DN.

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```
/...\com/unboundid/ldap/sdk/unboundidds/tools/DNsOnlyLDAPResultWriter.java
```

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This enum defines an assurance level that may be used for servers in
different locations from the server receiving the change.

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 */
/**
 * This class provides the base class for all LDIF reader entry translators that
 * will be used to determine where an entry should be written.
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tools/SplitLDIFTranslator.java

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This class provides an implementation of an LDIF reader entry translator that
can be used to determine the set into which an entry should be placed by
selecting the first set for which the associated filter matches the entry.

<BR>

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*/
/**
* This class provides an implementation of an extended request that can be used
* to retrieve a version of the server configuration. It may be the active
* configuration, the baseline configuration, or any of the archived
* configurations. The set of available configurations that may be retrieved
* can be obtained using the { @link ListConfigurationsExtendedRequest }. 
* <BR>
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*B<R>*

The OID for this extended request is 1.3.6.1.4.1.30221.2.6.28. It must have
* a value with the following encoding:

* <PRE>
* GetConfigurationRequest ::= SEQUENCE {
*     requestType CHOICE {
*         activeConfiguration [0] NULL,
*         baselineConfiguration [1] OCTET STRING,
*         archivedConfiguration [2] OCTET STRING,
*         ... },
*     ... }
* </PRE>

*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/GetConfigurationExtendedRequest.java
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*/
/**
* This class provides an extended request that may be used to clear a server
* alarm condition about missed change notifications.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>
* <BR>
* The request has an OID of 1.3.6.1.4.1.30221.2.6.42 and a value with the
* following encoding:
*/
<pre>
ClearMissedNotificationChangesAlarmRequest ::= SEQUENCE {
  notificationManagerID          OCTET STRING,
  notificationDestinationID      OCTET STRING }
</pre>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/ClearMissedNotificationChangesAlarmExtendedRequest.java
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*/
/**
* This class provides support for reading and decoding the value of the
* [@code ds-pwp-state-json] virtual attribute, which holds information about a
* user's password policy state.
* 
* <BR>
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* 
* @see ModifiablePasswordPolicyStateJSON
* @see PasswordPolicyStateExtendedRequest
* @see PasswordPolicyStateJSONField
*/
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/**
 * This class defines a Directory Server task that can be used to dump
 * information about the contents of a backend which stores its data in a
 * Berkeley DB Java Edition database. It reports information about the total
 * number of keys, total and average key size, and total an average value size
 * for all of the databases in the environment, and the percentage of the total
 * live data size contained in each database.
 * <BR>
 */
* `<B>NOTE:</B> This class, and other classes within the
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* The properties that are available for use with this type of task include:
  * `<UL>
  * `<LI>The backend ID of the backend for to be examined. The specified
   * backend must be enabled and must store its contents in the Berkeley DB
   * Java Edition. </LI>
  * </UL>
* */

```
Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/tasks/DumpDBDetailsTask.java
```

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* */
/**
* This class provides information about the health check states that may be
* held by an LDAP external server.
* 
* <BR>
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* */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/monitors/HealthCheckState.java

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This class provides a data structure that holds information about an audit log message that represents a modify operation.

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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a modify DN
* request received from a client.
* <BR>
*  <B>NOTE:</B> This class, and other classes within the
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/ModifyDNRequestAccessLogMessage.java
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/**
  * This class provides a data structure that holds information about a log
  * message that may appear in the Directory Server access log about a search
  * request that was forwarded to a backend server but did not complete
  * successfully.
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  *   <B>NOTE:</B> This class, and other classes within the
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/**
 * This class provides a thread that can be used to retrieve the DNs to examine
 * for a server used in conjunction with the [@link LDAPDiff] tool. The DNs
 * may be obtained from a file, using the
 * [@link StreamDirectoryValuesExtendedRequest], or by performing a search.
 * <BR>
 * <BLOCKQUOTE>
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* jar/com/unboundid/ldap/sdk/unboundidds/tools/LDAPDiffDNDumper.java
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This class provides a data structure that holds information about a log message that may appear in the Directory Server access log about a modify request forwarded to a backend server.

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This class defines a Directory Server task that can be used to restore a backup.

The properties that are available for use with this type of task include:

- The path to the backup directory in which the backup resides. This must be provided when scheduling a new task of this type.
- The backup ID of the backup to be restored. If this is not provided when scheduling an instance of this task, then the most recent backup in the backup directory will be selected.
- A flag that indicates whether to attempt to restore the backup or only to verify it to determine whether it appears to be valid (e.g., validate the digest and/or signature, make sure that the backend considers it valid, etc.).
- The path to a file containing a passphrase to use to generate the encryption key.

/*

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/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/tasks/RestoreTask.java
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/*

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This class provides an implementation of an LDIF reader entry translator that
* can be used to determine the set into which an entry should be placed by
* computing a modulus from a digest of the RDN.

* <BR>
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/**
 * This class provides support for an UnboundID-proprietary SASL mechanism that
 * may be used to indicate that a user has attempted authentication, whether
 * successfully or not, through some mechanism that is external to the Directory
 * Server. If this mechanism is supported in the server, then attempting to
 * authenticate with it will not change the identity of the client connection,
 * but will perform additional processing that would normally be completed
* during a more traditional authentication attempt.

* <BLOCKQUOTE>
*  * <B>NOTE:</B> This class, and other classes within the
*  * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
*  * supported for use against Ping Identity, UnboundID, and
*  * Nokia/Alcatel-Lucent 8661 server products. These classes provide support
*  * for proprietary functionality or for external specifications that are not
*  * considered stable or mature enough to be guaranteed to work in an
*  * interoperable way with other types of LDAP servers.
*  * </BLOCKQUOTE>

* This SASL bind request has a mechanism of
* "UNBOUNDID-EXTERNALLY-PROCESSED-AUTHENTICATION" and must
* include SASL credentials with the following encoding:

* <PRE>
* ExternallyProcessedAuthenticationCredentials ::= SEQUENCE {
*   authenticationID                          [0] OCTET STRING,
*   externalMechanismName                     [1] OCTET STRING,
*   externalAuthenticationWasSuccessful       [2] BOOLEAN,
*   externalAuthenticationFailureReason       [3] OCTET STRING OPTIONAL,
*   externalAuthenticationWasPasswordBased    [4] BOOLEAN DEFAULT TRUE,
*   externalAuthenticationWasSecure           [5] BOOLEAN DEFAULT FALSE,
*   endClientIPAddress                        [6] OCTET STRING OPTIONAL,
*   additionalAccessLogProperties             [7] SEQUENCE OF SEQUENCE {
*     propertyName      OCTET STRING,
*     propertyValue     OCTET STRING } OPTIONAL,
*   ... }
* </PRE>

* In the event that the external authentication was considered successful, the
* server will ensure that the target user's account is in a usable state and,
* if not, will return a failure response. If the external authentication was
* successful and the user's account is usable, then the server will make any
* appropriate password policy state updates (e.g., clearing previous
* authentication failures, updating the user's last login time and IP address,
* etc.) and return a success result.

* In the event that the external authentication was not considered successful,
* the server may also make corresponding password policy state updates (e.g.,
* incrementing the number of authentication failures and locking the account if
* appropriate) before returning a failure result.

*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
* jar/com/unboundid/ldap/sdk/unboundidds/UnboundIDExternallyProcessedAuthenticationBindRequest.java
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 * along with this program; if not, see <http://www.gnu.org/licenses>.
 */

/*
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about the result
 * of an add operation processed by the Directory Server.
 */

<BR>

<B>NOTE:</B> This class, and other classes within the
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* considered stable or mature enough to be guaranteed to work in an
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* </BLOCKQUOTE>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/logs/AddResultAccessLogMessage.java
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 */

/*
 * This class provides a data structure that holds information about a log
 * message that may appear in the Directory Server access log about an add
* request that was forwarded to a backend server but did not complete successfully.

* <BR>

* <BLOCKQUOTE>

  * <B>NOTE:</B> This class, and other classes within the
  * {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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* </BLOCKQUOTE>

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Found in path(s):

* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/AddForwardFailedAccessLogMessage.java

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6.0.3-sources-
  jar/com/unboundid/ldap/sdk/ParallelPoolCloserTask.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6.0.3-sources-
  jar/com/unboundid/ldap/sdk/ParallelPoolConnectorTask.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6.0.3-sources-
  jar/com/unboundid/ldap/sdk/SASLBindInProgressException.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6.0.3-sources-
  jar/com/unboundid/util/ssl/AggregateTrustManager.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6.0.3-sources-
  jar/com/unboundid/util/ssl/HostNameTrustManager.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6.0.3-sources-
  jar/com/unboundid/ldap/sdk/SynchronizedSocketFactory.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6.0.3-sources-
  jar/com/unboundid/ldap/sdk/ParallelPoolCloser.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6.0.3-sources-
  jar/com/unboundid/ldap/sdk/ParallelPoolConnectorTask.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldap-sdk-6.0.3-sources-
  jar/com/unboundid/ldap/sdk/ParallelPoolConnector.java

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The fields that are required to be included in an "object matches" filter are:
* <UL>
  * <LI> [@code field] -- A field path specifier for the JSON field for which to
  make the determination. This may be either a single string or an array
  of strings as described in the "Targeting Fields in JSON Objects" section
  of the class-level documentation for [@link JSONObjectFilter]. The value
  of the target field is expected to either be a JSON object or an array
  that contains one or more JSON objects.
  </LI>
  * <LI> [@code filter] -- A JSON object that represents a valid JSON object
  filter to match against any JSON object(s) in the value of the target
  field. Note that field name references in this filter should be
  relative to the object in the value of the target field, not to the
  other JSON object that contains that field.
  </LI>
  * </UL>

* <H2>Example</H2>

* The following is an example of an "object matches" filter that will match
* any JSON object with a top-level field named "contact" whose value is a JSON
* object (or an array containing one or more JSON objects) with a "type" field
* with a value of "home" and a "email" field with any value:

  * <PRE>
    * { "filterType" : "objectMatches",
      * "field" : "contact",
      * "filter" : {
        * "filterType" : "and",
        * "andFilters" : [
          * { "filterType" : "equals",
            * "field" : "type",
            * "value" : "home" },
          * { "filterType" : "containsField",
            * "field" : "email" } ] ] }
  * </PRE>

* The above filter can be created with the code:

  * <PRE>
    * ObjectMatchesJSONObjectFilter filter = new ObjectMatchesJSONObjectFilter(     * "contact",
    * new ANDJSONObjectFilter(     * new EqualsJSONObjectFilter("type", "home"),
    * new ContainsFieldJSONObjectFilter("email"));
  * </PRE>

*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-   * jar/com/unboundid/ldap/sdk/unboundidds/jsonfilter/ObjectMatchesJSONObjectFilter.java
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 */

/*
 * This class defines a monitor entry that provides general information about
 * the Directory Server version.
 */

/*
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
* Nokia/Acatal-Lucent 8661 server products. These classes provide support
* for proprietary functionality or for external specifications that are not
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* interoperable way with other types of LDAP servers.

Information that it may make available includes:

- The full Directory Server version string, which may contain spaces.
- The compact Directory Server version string, which will not contain any spaces and may use a more compact representation than the full version string.
- The Directory Server product name.
- The server major version number.
- The server minor version number.
- The server point version number.
- A version qualifier string which may provide a more descriptive name for the build of the server.
- The server build ID string.
- The server promoted build number.
- The source control revision number for the source used to build the server.
- A list of the bugfix IDs for any special fixes included in the server.

The server should present at most one version monitor entry. It can be retrieved using the `MonitorManager#getVersionMonitorEntry` method. This entry provides specific methods for accessing this version information (e.g., the `VersionMonitorEntry#getFullVersion` method can be used to retrieve the full version string for the server). Alternately, this information may be accessed using the generic API. See the `MonitorManager` class documentation for an example that demonstrates the use of the generic API for accessing monitor data.

The name of the attribute used to hold the server SNMP4J agent library version.

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/*
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*/
This class defines a data structure that provides information about the
result of assured replication processing, either on a replication server (if
that is all that is needed to satisfy the desired level of assurance) or
on a directory server (if required by the desired level of assurance).

<B>NOTE:</B> This class, and other classes within the
[code com.unboundid.ldap.sdk.unboundidds] package structure, are only
supported for use against Ping Identity, UnboundID, and
Nokia/Alcatel-Lucent 8661 server products. These classes provide support
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 */

/*
 * This class provides a request control which may be used to request that the
 * server return resource limit information for the authenticated user in the
 * response to a successful bind operation. Resource limits that may be
 * returned include custom size limit, time limit, idle time limit, lookthrough
 * limit, equivalent authorization user DN, client connection policy name, and
 * privilege names.
 */

<BR>

<BLOCKQUOTE>
NOTE: This class, and other classes within the
 {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
 supported for use against Ping Identity, UnboundID, and
 Nokia/Alcatel-Lucent 8661 server products. These classes provide support
 for proprietary functionality or for external specifications that are not
 considered stable or mature enough to be guaranteed to work in an
 interoperable way with other types of LDAP servers.

 The criticality for this control may be either { @code true} or { @code false}.
 It may optionally have a value, although it should only have a value if the
 server advertises OID "1.3.6.1.4.1.30221.2.12.6"
 ( { @link #EXCLUDE_GROUPS_FEATURE_OID}) in the supportedFeatures attribute of
 its root DSE. The { @link #serverAdvertisesExcludeGroupsFeature} method can
 help clients make that determination.

 If the control does have a value, then it should use the following encoding:

   GetUserResourceLimitsRequest ::= SEQUENCE {
      excludeGroups     [0] BOOLEAN DEFAULT FALSE,
      ... }

 If the control does not have a value, then the server will assume the default
 behavior for all elements that would be in the value.

 @see getUserResourceLimitsResponseControl

 /*

 Found in path(s):
 /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
 jar/com/unboundid/ldap/sdk/unboundidds/controls/getUserResourceLimitsRequestControl.java
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*/
/**
* This class represents a data structure with information about a notification
* subscription defined in a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
* 8661 server instance.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B>  This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*   for proprietary functionality or for external specifications that are not
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/NotificationSubscriptionDetails.java
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*/
/**
* This class defines a data structure that will provide information about
* warnings that may affect an account's usability. It includes a number of
* predefined warning types, but also allows for the possibility of additional
* warning types that have not been defined.
* <BR>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </B>
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateAccountUsabilityWarning.java

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/**
 * <BLOCKQUOTE>
 *   <B>NOTE:</B>  The use of interactive transactions is strongly discouraged
 *   because it can create conditions which are prone to deadlocks between
 *   operations that may significantly affect performance and will result in the
 *   cancellation of one or both operations.  It is strongly recommended that
 *   standard LDAP transactions (which may be started using a
 *   [ @link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest] )
 *   or a [ @code MultiUpdateExtendedRequest] be used instead.  Although they
 *   cannot include arbitrary read operations, LDAP transactions and
 */

---

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* multi-update operations may be used in conjunction with the
  * [@link com.unboundid.ldap.sdk.controls.AssertionRequestControl],
  * [@link com.unboundid.ldap.sdk.controls.PreReadRequestControl], and
  * [@link com.unboundid.ldap.sdk.controls.PostReadRequestControl] to
  * incorporate some read capability into a transaction, and in conjunction
  * with the [@link com.unboundid.ldap.sdk.ModificationType#INCREMENT]
  * modification type to increment integer values without the need to know the
  * precise value before or after the operation (although the pre-read and/or
  * post-read controls may be used to determine that).
* </BLOCKQUOTE>
* This class defines an interactive transaction specification response control,
  * which will be included in the server's response to an operation that included
  * the [@link InteractiveTransactionSpecificationRequestControl].
* </BR>
* <BLOCKQUOTE>
  * **NOTE:** This class, and other classes within the
  * [@code com.unboundid.ldap.sdk.unboundidds] package structure, are only
  * supported for use against Ping Identity, UnboundID, and
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  * for proprietary functionality or for external specifications that are not
  * considered stable or mature enough to be guaranteed to work in an
  * interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* It provides information about the state of the transaction, which may
  * include:
* <UL>
  * <LI><CODE>transactionValid</CODE> -- Indicates whether the transaction is
    * still valid in the server. This should be checked if the associated
    * operation did not complete successfully.</LI>
  * <LI><CODE>baseDNs</CODE> -- This may specify the set of base DNs below
    * which the client is allowed to request operations as part of this
    * transaction. It may be absent if there are no restrictions on which
    * base DNs may be used, or if it has not changed since the last
    * response within this transaction.</LI>
* </UL>
* See the documentation in the
  * [@code StartInteractiveTransactionExtendedRequest] class for an example of
  * processing interactive transactions.
* @deprecated The use of interactive transactions is strongly discouraged
  * because it can create conditions which are prone to deadlocks
  * between operations that may significantly affect performance and
  * will result in the cancellation of one or both operations.
*/

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/**
* This interface defines a number of methods common to all types of operation
* result access log messages.
* <BR>
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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</BLOCKQUOTE>
*/

*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/OperationResultAccessLogMessage.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/logs/MinimalOperationResultAccessLogMessage.java

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 */

/**
This class provides an implementation of an extended request that may be used to set the accessibility of one or more subtrees in the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server. It may be used to indicate that a specified set of entries and all their subordinates should be invisible or read-only, or to restore it to full accessibility.

This class, and other classes within the `com.unboundid.ldap.sdk.unboundidds` package structure, are only supported for use against Ping Identity, UnboundID, and Nokia/Alcatel-Lucent 8661 server products. These classes provide support for proprietary functionality or for external specifications that are not considered stable or mature enough to be guaranteed to work in an interoperable way with other types of LDAP servers.

The OID for this request is 1.3.6.1.4.1.30221.2.6.19, and the value must have the encoding specified below. Note that the initial specification for this extended request only allowed for the specification of a single subtree, whereas it is now possible to affect the accessibility of multiple subtrees in a single request. In order to preserve compatibility with the original encoding, if there is more than one target subtree, then the first subtree must be specified as the first element in the value sequence and the remaining subtrees must be specified in the `additionalSubtreeBaseDNs` element.

The OID for this request is 1.3.6.1.4.1.30221.2.6.19, and the value must have the encoding specified below. Note that the initial specification for this extended request only allowed for the specification of a single subtree, whereas it is now possible to affect the accessibility of multiple subtrees in a single request. In order to preserve compatibility with the original encoding, if there is more than one target subtree, then the first subtree must be specified as the first element in the value sequence and the remaining subtrees must be specified in the `additionalSubtreeBaseDNs` element.

```plaintext
SetSubtreeAccessibilityRequestValue ::= SEQUENCE {
  subtreeBaseDN             LDAPDN,
  subtreeAccessibility      ENUMERATED {
    accessible                 (0),
    read-only-bind-allowed     (1),
    read-only-bind-denied      (2),
    hidden                     (3),
    ... },
  bypassUserDN              [0] LDAPDN OPTIONAL,
  additionalSubtreeBaseDNs  [1] SEQUENCE OF LDAPDN OPTIONAL,
  ... }
```

Found in path(s):

```
/opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/SetSubtreeAccessibilityExtendedRequest.java
```

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* */
/**
* This class defines a generic monitor entry that provides access to monitor
* information provided by a Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
* 8661 server instance.  Subclasses may provide specific methods for
* interpreting the information exposed by specific types of monitor entries.
* 
* <BR>
* <CODE>
* \{@code com.unboundid.ldap.sdk.unboundidds.ldap.sdk.unboundidds\} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </CODE>
* </BLOCKQUOTE>
See the `MonitorManager` class for an example that demonstrates the process for retrieving all monitor entries available in the directory server and retrieving the information they provide using the generic API.

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This class provides a request control which may be included in a search
* request to indicate that soft-deleted entries may be included in the results,
* or it may be included in a compare or modify request to indicate that the
* operation should operate against the target entry even if it is a
* soft-deleted entry.
* <BR>
* <BLOCKQUOTE>
* <B>NOTE:</B> This class, and other classes within the
* {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* for proprietary functionality or for external specifications that are not
* considered stable or mature enough to be guaranteed to work in an
* interoperable way with other types of LDAP servers.
* </BLOCKQUOTE>
* <BR>
* The criticality for this control may be either {@code TRUE} or {@code FALSE},
* but this will only impact how the delete request is to be handled by servers
* which do not support this control. A criticality of {@code TRUE} will cause
* any server which does not support this control to reject the request, while
* a criticality of {@code FALSE} should cause the request to be processed as if
* the control had not been included.
* <BR>
* The control may optionally have a value. If a value is provided, then it
* must be the encoded representation of the following ASN.1 element:
* <PRE>
* SoftDeleteAccessRequestValue ::= SEQUENCE {
*   includeNonSoftDeletedEntries     [0] BOOLEAN DEFAULT TRUE,
*   returnEntriesInUndeletedForm     [1] BOOLEAN DEFAULT FALSE,
*   ... }
* </PRE>
* See the documentation for the {@link SoftDeleteRequestControl} class for an
* example demonstrating the use of this control.
* 
* @see  SoftDeleteResponseControl
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/controls/SoftDeletedEntryAccessRequestControl.java
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* along with this program; if not, see <http://www.gnu.org/licenses>.
*/
/**
* This enum defines the set of fields that are supported for use with the
* [{@link ModifiablePasswordPolicyStateJSON} object.
* <BR>
* <B>NOTE:</B> This class, and other classes within the
* {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
* supported for use against Ping Identity, UnboundID, and
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* */

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/ModifiablePasswordPolicyStateJSONField.java
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 */

/**
 * Processes a simple bind request with the provided DN and password using a
 * connection from this connection pool. Note that this will impact the state
 * of the connection in the pool, and therefore this method should only be
 * used if this connection pool is used exclusively for processing bind
 * operations, or if the retain identity request control (a proprietary
 * control for use with the Ping Identity, UnboundID, or Nokia/Alcatel-Lucent
 * 8661 Directory Server) is included in the bind request to ensure that the
 * authentication state is not impacted.
 *
 * @param  bindDN    The bind DN for the bind operation.
 * @param  password  The password for the simple bind operation.
 */
* @return The result of processing the bind operation.
* 
* @throws LDAPException If the server rejects the bind request, or if a 
*             problem occurs while sending the request or reading 
*             the response.
*/
/**
* Processes the provided bind request using a connection from this connection 
* pool. Note that this will impact the state of the connection in the pool, 
* and therefore this method should only be used if this connection pool is 
* used exclusively for processing bind operations, or if the retain identity 
* request control (a proprietary control for use with the Ping Identity, 
* UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server) is included in 
* the bind request to ensure that the authentication state is not impacted. 
* 
* @param  bindRequest The bind request to be processed. It must not be 
*             null. } *@code null}.
* 
* @return The result of processing the bind operation.
* 
* @throws LDAPException If the server rejects the bind request, or if a 
*             problem occurs while sending the request or reading 
*             the response.
*/

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* jar/com/unboundid/ldap/sdk/AbstractConnectionPool.java
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*/
/**
** This enum defines the set of possible error behavior values that may be used
* in the multi-update extended request.
* <BR>
* @see MultiUpdateExtendedRequest
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/unboundidds/extensions/MultiUpdateErrorBehavior.java
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/**
 * This class provides the default changelog entry listener that will be used if
 * none is explicitly provided for the associated get changelog batch extended
 * operation. It will collect the changelog entries in a list that will be made
 * available as part of the extended result.
 * <BR>
 * <B>NOTE:</B> This class, and other classes within the
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/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a form of
* security negotiation performed on a client connection.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
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*/

/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about an unbind
* request received from a client.
* <BR>
* <BLOCKQUOTE>
*   <B>NOTE:</B> This class, and other classes within the
*   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
 * <BLOCKQUOTE>
 * <B>NOTE:</B> The use of interactive transactions is discouraged because it
 * can create conditions which are prone to deadlocks between operations that
 * may result in the cancellation of one or both operations. It is strongly
 * recommended that standard LDAP transactions (which may be started using a
 * {@link com.unboundid.ldap.sdk.extensions.StartTransactionExtendedRequest})
 * or a multi-update extended operation be used instead. Although they cannot
 * include arbitrary read operations, LDAP transactions and multi-update
 * operations may be used in conjunction with the
 * {@link com.unboundid.ldap.sdk.controls.AssertionRequestControl},
 * {@link com.unboundid.ldap.sdk.controls.PreReadRequestControl}, and
 * incorporate some read capability into a transaction, and in conjunction
 * with the ModificationType#INCREMENT modification type to increment integer values without the need to know the
 * precise value before or after the operation (although the pre-read and/or
 * post-read controls may be used to determine that).
 */

This class implements a data structure for storing the information from an
extended result for the start interactive transaction extended request. It
is able to decode a generic extended result to extract the transaction ID and
base DNs that it may contain, if the operation was successful.

See the documentation for the
{@link StartInteractiveTransactionExtendedRequest} class for an example that
demonstrates the use of interactive transactions.

@deprecated The use of interactive transactions is strongly discouraged
because it can create conditions which are prone to deadlocks
between operations that may significantly affect performance and
will result in the cancellation of one or both operations.
*/

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 */

/**
 * The quality of protection that should be used for any communication that occurs after the authentication has
 * completed. Allowed values are "auth" (for just authentication with no communication protection), "auth-int" (for
 * integrity protection for communication, which does not encrypt but ensures that the communication cannot be
 * imperceptibly altered by a man in the middle attack), and "auth-conf" (for confidentiality protection for
 * communication, which encrypts the communication so that it cannot be deciphered by a third-party observer). If no
 * value is specified, then a default of "auth" will be assumed. If any of multiple qualities of protection will be
 * considered acceptable then the permissible QoP values may be separated by commas and listed in order from most
 * desirable to least desirable.
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*/
/**
* This class represents a data structure that contains information that should
* be used when logging launch and completion messages for a tool invocation.
* <BR>
* <BLOCKQUOTE>
* NOTE: This class, and other classes within the

* {code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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jar/com/unboundid/ldap/sdk/unboundidds/tools/ToolInvocationLogDetails.java
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/*
/**
 * This class provides an {@link LDAPResultWriter} instance that formats results
 * in LDIF.
 * <BR>
 * <BLOCKQUOTE>
 *   <B>NOTE:</B>  This class, and other classes within the
 *   {@code com.unboundid.ldap.sdk.unboundidds} package structure, are only
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*/
/**
* This class provides a data structure that holds information about a log
* message that may appear in the Directory Server access log about a
* connection that has been established.
* <BR>
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*   <B>NOTE:</B> This class, and other classes within the
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 */
/**
 ** This class provides a utility that may be used to register a YubiKey OTP
 ** device for a specified user so that it may be used to authenticate that user.
 ** Alternately, it may be used to deregister one or all of the YubiKey OTP
 ** devices that have been registered for the user.
 ** <BR>
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  jar/com/unboundid/ldap/sdk/unboundidds/RegisterYubiKeyOTPDevice.java
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This class provides a utility that may be used to move a single entry or a
small subtree of entries from one server to another.

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*/
/**
* This class provides an implementation of an extended request that can be used
* to identify potential incompatibility problems between two backup
* compatibility descriptor values. This can be used to determine whether a
* backup from one server (or an older version of the same server) could be
* restored into another server (or a newer version of the same server). It
* may also be useful in determining whether replication initialization via
* binary copy may be performed between two servers.
* <BR>
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 The OID for this extended request is 1.3.6.1.4.1.30221.2.6.32. It must have a value with the following encoding:

 IdentifyBackupCompatibilityProblemsRequest ::= SEQUENCE {
   sourceDescriptor     [0] OCTET STRING,
   targetDescriptor     [1] OCTET STRING,
   ... }

/*
* @see  IdentifyBackupCompatibilityProblemsExtendedResult
* @see  GetBackupCompatibilityDescriptorExtendedRequest
*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InMemoryOperationInterceptorRequestHandler.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InterceptedIntermediateResponse.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/RateAdjustor.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedCompareRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/ssl/TrustAllSSLSocketVerifier.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedCompareRequest.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/DIGESTMD5BindRequestProperties.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedModifyResult.java
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InterceptedSearchOperation.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InterceptedSearchEntry.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedExtendedResult.java
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* /opt/ cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/DiscardAsyncListener.java
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* /opt/ cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InterceptedDeleteRequest.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/listener/interceptor/InMemoryInterceptedSASLBindRequest.java

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 */
/**
* This class implements a data structure for storing the information from an
* extended result for the password policy state extended request as used in the
* Ping Identity, UnboundID, or Nokia/Alcatel-Lucent 8661 Directory Server. It
* is able to decode a generic extended result to obtain the user DN and
* operations. See the documentation in the
* [@link PasswordPolicyStateExtendedRequest] class for an example that
* demonstrates the use of the password policy state extended operation.
* <BR>
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*   for proprietary functionality or for external specifications that are not
*   considered stable or mature enough to be guaranteed to work in an
*   interoperable way with other types of LDAP servers.
* &lt;/BLOCKQUOTE&gt;
* &lt;BR&gt;
* This extended result does not have an OID. If the request was processed
* successfully, then the result will have a value that has the same encoding as
* the request, which was described in the class-level documentation for the
* [@link PasswordPolicyStateExtendedRequest] class.
*/

Found in path(s):
* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
  jar/com/unboundid/ldap/sdk/unboundidds/extensions/PasswordPolicyStateExtendedResult.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/util/ByteStringFactory.java
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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-jar/com/unboundid/ldap/sdk/ReadOnlyEntry.java
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It provides methods for the following:

- Retrieving information about all scheduled, running, and
  recently-completed tasks in the server.
- Retrieving a specific task by its task ID.
- Scheduling a new task.
- Waiting for a scheduled task to complete.
* Canceling a scheduled task.
* Deleting a scheduled task.

**Example**

The following example demonstrates the process for retrieving information about all tasks within the server and printing their contents using the generic API:

```java
List<Task> allTasks = TaskManager.getTasks(connection);
for (Task task : allTasks) {
    String taskID = task.getTaskID();
    String taskName = task.getTaskName();
    TaskState taskState = task.getState();
    Map<TaskProperty,List<Object>> taskProperties =
        task.getTaskPropertyValues();
}
```

*/

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* /
*/

/*
* This class defines an exception that may be thrown if a problem occurs while
* attempting to parse a log message.
* <BR>
* <BLOCKQUOTE>
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*/

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* /opt/cola/permits/1339752361_1654599325.3077846/0/unboundid-ldapsdk-6-0-3-sources-
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1.1634 tomcat-i18n-pt-br 9.0.63

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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
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b) Use a suitable shared library mechanism for linking with the
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copy of the library already present on the user's computer system,
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will operate properly with a modified version of the library, if
the user installs one, as long as the modified version is
interface-compatible with the version that the work was made with.

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*******************

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see https://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 https://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

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

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Mersenne Twister
---------------

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

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

Before using, initialize the state by using init_genrand(seed)
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Any feedback is very welcome.
http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

Sockets
-------
The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and :func:`getnameinfo`, which are coded in separate source files from the WIDE Project, http://www.wide.ad.jp/. ::

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

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

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SipHash24
--------

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

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

strtod and dtoa
--------

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

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zlib
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cfuhash
-------
The implementation of the hash table used by the `mod:` `tracemalloc` is based on the cfuhash project:

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

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

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

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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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1.1648 ncurses 6.2 0ubuntu2
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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp $

1.1649 cpp-9 9.4.0-1ubuntu1~20.04.1

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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========

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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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SIGNATURE OF TY COON, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This is the Debian GNU/Linux prepackaged version of the GNU compiler collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C, Objective-C++, and Modula-2 compilers, documentation, and support libraries. In addition, Debian provides the gm2 compiler, either in the same source package, or built from a separate same source package. Packaging is done by the Debian GCC Maintainers <debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourcesware.org/pub/newlib/ (for newlib)
git://git.savannah.gnu.org/gm2.git (for Modula-2)

The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td></td>
<td>gce-9-doc</td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
</tr>
</thead>
</table>
C++  libstdc++6-9 dbg  libstdc++6-9-pic
D  libphobos-9-dev

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4  GCC intrinsics (platform-dependent)
gcc-9-base  Base files common to all compilers
gcc-9-soft-float  Software floating point (ARM only)
gcc-9-source  The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9  GNAT version library

C:
cpp-9, cpp-9-doc  GNU C Preprocessor
libssp0-dev, libssp0  GCC stack smashing protection library
libquadmath0  Math routines for the __float128 type
fixincludes  Fix non-ANSI header files

C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1  GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code, Debian provides additional packages containing 32-bit versions of some libraries. These packages have names beginning with 'lib32' instead of 'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which can also run 64-bit code, Debian provides additional packages with names beginning with 'lib64' instead of 'lib'. These packages contain 64-bit versions of the libraries. (At this time, not all platforms and not all libraries support biarch.) The license terms for these lib32 or lib64 packages are identical to the ones for the lib packages.

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gcc/emults.c, gcc/gbl-ctors.h, gcc/gcov-io.h, gcc/libgcov.c,
gcc/tsystem.h, gcc/typeclass.h).
- libatomic
- libdecmumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-9 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.
- libvtv

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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Written by Francois-Xavier Coudert  <fxcoudert@gcc.gnu.org>
Written by Tobias Burnus  <burnus@net-b.de>

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ldexpq.c:
* Conversion to long double by Ulrich Drepper,
* Cygnus Support, drepper@cygnus.com.

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sinq_kernel.c, truncq.c:
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D:
gdc-9 GNU D Compiler
libphobos-9-dev D standard runtime library

The D source package is made up of the following components.

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* /opt/cola/permits/1302203743_1649325959.45/0/netty-codec-http2-4-1-74-final-sources-
jar/io/netty/handler/codec/http2/Http2HeadersEncoder.java
*/
* /opt/cola/permits/1302203743_1649325959.45/0/netty-codec-http2-4-1-74-final-sources-
jar/io/netty/handler/codec/http2/DefaultHttp2ConnectionEncoder.java
*/
* /opt/cola/permits/1302203743_1649325959.45/0/netty-codec-http2-4-1-74-final-sources-
jar/io/netty/handler/codec/http2/DelegatingDecompressorFrameListener.java
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* /opt/cola/permits/1302203743_1649325959.45/0/netty-codec-http2-4-1-74-final-sources-
jar/io/netty/handler/codec/http2/Http2FrameCodecBuilder.java
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jar/io/netty/handler/codec/http2/DefaultHttp2UnknownFrame.java
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* /opt/cola/permits/1302203743_1649325959.45/0/netty-codec-http2-4-1-74-final-sources-
jar/io/netty/handler/codec/http2/Http2MultiplexCodecBuilder.java
* /opt/cola/permits/1302203743_1649325959.45/0/netty-codec-http2-4-1-74-final-sources-
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  /opt/cola/permits/1302203743_1649325959.45/0/netty-codec-http2-4-1-74-final-sources-
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  jar/io/netty/handler/codec/http2/Http2OutboundFrameLogger.java
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1.1658 kerberos 1.15-1+deb9u3

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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
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```
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
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lib/libgss/g_context_time.c
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lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_name.c
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lib/libgss/g_dsp_status.c
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lib/libgss/g_dup_name.c
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lib/libgss/g_exp_sec_context.c
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lib/libgss/g_export_name.c
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lib/libgss/g_glue.c
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lib/libgss/g_imp_name.c
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lib/libgss/g_imp_sec_context.c
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lib/libgss/g_init_sec_context.c
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lib/libgss/g_initialize.c
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lib/libgss/g_inquire_context.c
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lib/libgss/g_inquire_names.c
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lib/libgss/g_process_context.c
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lib/libgss/g_rel_buffer.c
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lib/libgss/g_rel_cred.c
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lib/libgss/g_rel_oid_set.c
lib/libgss/g_seal.c
lib/libgss/g_sign.c
lib/libgss/g_store_cred.c
lib/libgss/g_unseal.c
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in
"src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gsssd_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/kproplog.c

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```
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```

1.1664 gogoprotobuf 1.3.1

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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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.

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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.

The value of the length field in this example is \texttt{12 (0x0C)} 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)
+---------------+---------------------+---------------+---------------------+
<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>
+---------------+---------------------+---------------+---------------------+

2 bytes length field at offset 0, do not strip header

2 bytes length field at offset 0, strip header

<ch3>2 bytes length field at offset 0, strip header</ch3>

<ch3>2 bytes length field at offset 0, do not strip header</ch3>
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)
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>

* 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
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* 3 bytes length field at the end of 5 bytes header, do not strip header</h3>

* The following message is a simple variation of the first example. An extra
  header value is prepended to the message. <tt>lengthAdjustment</tt> is zero
  again because the decoder always takes the length of the prepended data into
  account during frame length calculation.
* <pre>
* `lengthFieldOffset` = 2 (= the length of Header 1)
* `lengthFieldLength` = 3
* `lengthAdjustment` = 0
* `initialBytesToStrip` = 0

* BEFORE DECODE (17 bytes) | AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+

* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>

* This is an advanced example that shows the case where there is an extra
  header between the length field and the message body. You have to specify a
  positive `<tt>lengthAdjustment</tt>` so that the decoder counts the extra
  header into the frame length calculation.

* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* `lengthAdjustment` = 2 (= the length of Header 1)
* `initialBytesToStrip` = 0
*
* BEFORE DECODE (17 bytes) | AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* | 0x00000C | 0xCAFE  | "HELLO, WORLD" |      | 0x00000C | 0xCAFE  | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
* </pre>

* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
  strip the first header field and the length field</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
* `lengthAdjustment` = 1 (= the length of HDR2)
* `initialBytesToStrip` = 3 (= the length of HDR1 + LEN)
*
* BEFORE DECODE (16 bytes) | AFTER DECODE (13 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Actual Content |----->|  Length  | Actual Content |
* | 0x00000C | "HELLO, WORLD" |      | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
2 bytes length field at offset 1 in the middle of 4 bytes header,
strip the first header field and the length field, the length field
represents the length of the whole message.

Let's give another twist to the previous example. The only difference from
the previous example is that the length field represents the length of the
whole message instead of the message body, just like the third example.
We have to count the length of HDR1 and Length into lengthAdjustment.
Please note that we don't need to take the length of HDR2 into account
because the length field already includes the whole header length.

lengthFieldOffset = 1
lengthFieldLength = 2
lengthFieldAdjustment = the length of HDR1 + LEN, negative
initialBytesToStrip = 3

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

lengthFieldOffset = 1
lengthFieldLength = 2
lengthFieldAdjustment = the length of HDR1 + LEN, negative
initialBytesToStrip = 3

@see LengthFieldPrepender
/*

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 * /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-jar/io/netty/handler/codec/CodecOutputList.java
 * /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-jar/io/netty/handler/codec/string/LineSeparator.java
 * /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-jar/io/netty/handler/codec/string/LineEncoder.java
 * /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-jar/io/netty/handler/codec/compression/CompressionUtil.java
 * /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="https://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
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* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
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/** *
* Enumeration of supported Base64 dialects.
* *
* The internal lookup tables in this class has been derived from
* Base64 Encoder/Decoder</a>.
*/

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* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1.jar/io/netty/handler/codec/unsupportedValueConverter.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1.jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1.jar/io/netty/handler/codec/protobuf/ProtobufDecoder.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1.jar/io/netty/handler/codec/ProtocolDetectionState.java

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  jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/compression/StandardCompressionOptions.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/compression/Brotli.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/compression/DeflateOptions.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/compression/GzipOptions.java
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  jar/io/netty/handler/codec/compression/BrotliEncoder.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/compression/BrotliDecoder.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/compression/CompressionOptions.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/compression/BrotliOptions.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/compression/Zstd.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
  jar/io/netty/handler/codec/compression/ZstdOptions.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
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jar/io.netty.handler.codec.compression/Bzip2Encoder.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
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jar/io.netty.handler.codec.compression/Bzip2Decoder.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
jar/io.netty.handler.codec.compression/Bzip2BitReader.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
jar/io.netty.handler.codec.compression/Bzip2Rand.java
* /opt/cola/permits/1302203719_1649325947.73/0/netty-codec-4-1-74-final-sources-1-
jar/io.netty.handler.codec.compression/Bzip2DivSufSort.java
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jar/io.netty.handler.codec.json/package-info.java

1.1666 python-colorama 0.3.7-1

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1.1675 e2fsprogs 1.44.1 1ubuntu1.1

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*/
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===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
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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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

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

From the original distribution:

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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"
@makedirs -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image::$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; id -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$BSD_LIB .
$(RM) -f $(BSD_LIB)
(cd ..: $(LN) $(LINK_BUILD_FLAGS) "\`echo $(my_dir) | sed -e 's;lib/;;'"/$BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

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

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

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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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
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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(); re-
placement 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.
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* MoreFiles
*
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*
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* with significant code contributions by Nitin Ganatra
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* 
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* 
* Basic encoding and decoding of Macintosh files to the MacBinary III spec.
* --------------------------------------------------------------
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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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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
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.1704 bundler 2.2.33-1.ph4

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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/controller/ZooKeeperServerController.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/util/CircularBuffer.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/controller/ControllableConnection.java

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jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumAuthServer.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/metrics/impl/MetricsProviderBootstrap.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/admin/Command.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/admin/Command.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-
jar/org/apache/zookeeper/server/ZooKeeperServerMain.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/ZKUtil.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/command/DigestCommand.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/session/SessionTrackerImpl.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/auth/KerberosName.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/quorum/ObserverMXBean.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/quorum/LocalSessionTracker.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/quorum/ReadOnlyRequestProcessor.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/util/SecurityUtils.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/common/AtomicFileWritingIdiom.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/util/SerializeUtils.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/auth/SaslQuorumAuthLearner.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/ZooKeeper.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/ObserverZooKeeperServer.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/AckRequestProcessor.java
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/admin/CommandOutputter.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/metric/Metric.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/command/IsroCommand.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/ReadOnlyBean.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/DataTreeBean.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/cli/DelQuotaCommand.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/cli/CommandNotFoundException.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/serverBean/ServerBean.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/LeaderElectionMXBean.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/ZooKeeperMain.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/ClientCnxnSocket.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/admin/AdminServer.java
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* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/server/auth/ProviderRegistry.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/common/AtomicFileOutputStream.java
* /opt/cola/permits/1292071513_1647925333.74/0/zookeeper-3-8-0-sources-jar/org/apache/zookeeper/cli/ListQuotaCommand.java
jar/org/apache/zookeeper/server/ObserverBean.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/common/PKCS12FileLoader.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/watch/IDeadWatcherListener.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/common/FilePathWatcher.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/quorum/LeaderBean.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/watch/WatchManagerFactory.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/ClientCnxnSocketNIO.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/util/AdHash.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/quorum/CommitProcessor.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/quorum/flexible/QuorumMaj.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/quorum/X509Exception.java
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* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/persistence/SnapStream.java
* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/metric/AvgMinMaxCounterSet.java
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* /opt/cola/permissions/1292071513_1647925333.74/0/zookeeper-3-8-0-sources.jar/org/apache/zookeeper/server/persistence/SnapStream.java
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The snowball stemmers in
analysis/common/src/java/net/sf/snowball
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were developed by Martin Porter and Richard Boulton.
The full snowball package is available from
https://snowballstem.org/

The KStem stemmer in
analysis/common/src/org/apache/lucene/analysis/en
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The Arabic,Persian,Romanian,Bulgarian, Hindi and Bengali analyzers (common) come with a default
stopword list that is BSD-licensed created by Jacques Savoy. These files reside in:

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

See [http://members.unine.ch/jacques.savoy/clef/index.html](http://members.unine.ch/jacques.savoy/clef/index.html).

The German, Spanish, Finnish, French, Hungarian, Italian, Portuguese, Russian and Swedish light stemmers (common) are based on BSD-licensed reference implementations created by Jacques Savoy and Ljiljana Dolamic. These files reside in:

- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/de/GermanMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/es/SpanishLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.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/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/](http://egothor.sf.net/), created by Leo Galambos, Martin Kvapil, and Edmond Nolan.

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1.1711 zstd 1.3.3+dfsg 2ubuntu1

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DRuntime: Runtime Library for the D Programming Language

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1.1715 libxi 1.7.10-0ubuntu1

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1.1718 python-pip 21.0.1

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

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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:

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.

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@(#) SRCSfile: certdata.txt,v $SRevision: 1.80 $ $Date: 2011/11/03 15:11:58 $ License

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1.1719 libatm 2.5.1-4

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

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

The hypothetical commands `show w' and `show c' should show the appropriate
parts of the General Public License.  Of course, your program's commands
might be different; for a GUI interface, you would use an "about box".

You should also get your employer (if you work as a programmer) or school,
if any, to sign a "copyright disclaimer" for the program, if necessary.
For more information on this, and how to apply and follow the GNU GPL, see
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The GNU General Public License does not permit incorporating your program
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may consider it more useful to permit linking proprietary applications with
the library.  If this is what you want to do, use the GNU Lesser General
Public License instead of this License.  But first, please read
1.1728 amqp-client 5.9.0

1.1728.1 Available under license:

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

Manifest-Version: 1.0
Bundle-SymbolicName: com.rabbitmq.client
Built-By: root
Bnd-LastModified: 1586866456034
Specification-Title: AMQP
Bundle-DocURL: https://www.rabbitmq.com
Bundle-Name: RabbitMQ Java Client
Bundle-Description: The RabbitMQ Java client library allows Java applications to interface with RabbitMQ.
Implementation-Title: RabbitMQ Java Client
Automatic-Module-Name: com.rabbitmq.client
Implementation-Version: 5.9.0
Bundle-ManifestVersion: 2
Specification-Vendor: AMQP Working Group (www.amqp.org)
Bundle-Vendor: VMware, Inc. or its affiliates.
Tool: Bnd-3.2.0.201605172007
Implementation-Vendor: VMware, Inc. or its affiliates.
Bundle-Version: 5.9.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_242
Implementation-URL: https://www.rabbitmq.com
Specification-Version: 0.9.1

Found in path(s):
* /opt/cola/permits/1136114760_1613679824.14/0/amqp-client-5-9-0-jar/META-INF/MANIFEST.MF

1.1729 jackson-datatype-jsr310 2.9.10
1.1729.1 Available under license:
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1.1730 simpleclient-hotspot 0.9.0
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1.1731 jackson-databind 2.9.10.8

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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A list of contributors may be found from CREDITS file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

1.1732 go-homedir 1.1.0

1.1732.1 Available under license:
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1.1733 libjpeg 6b

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1.1733.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998
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Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at jpeg-info@uunet.uu.net to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

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

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

DOCUMENTATION ROADMAP

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 "rdipgeom" and "wdipgeom", 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
==========

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

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

including JPEG. It is an excellent source if you are comfortable reading C code but don't know much about data compression in general. The book's JPEG sample code is far from industrial-strength, but when you are ready to look at a full implementation, you've got one here...


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

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

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

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

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

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems.
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/1. 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

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

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

FILE FORMAT WARS

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

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

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

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

TO DO
=====

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

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

As always, speeding things up is of great interest.

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

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1.1747 opensaml-messaging-impl 4.0.1

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 */
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/**
 * Get whether message channel confidentiality is active.
 *
 * @return Returns the confidentialityActive.
 */
/**
 * Set whether message channel confidentiality is active.
 *
 * @param flag The confidentialityActive to set.
 */

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* /opt/cola/permits/1339752665_1654599313.6305633/0/opensaml-messaging-impl-4-0-1-sources-jar/org/opensaml/messaging/handler/impl/StaticMessageChannelSecurity.java

1.1748 simpleclient 0.9.0
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1.1749 debconf 1.5.73

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1.1750 glibc 2.28-10
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Weak key patches.

GNUPG Rmi Guyomarch 1999-05-25
Assigns past and future changes. (g10/compress.c, g10/encr-data.c,
g10/free-packet.c, g10/mdfilter.c, g10/plaintext.c, util/iobuf.c)
rguyom@mail.dotcom.fr

ANY g10 Code GmbH 2001-06-07
Assignment for future changes terminated on 2012-12-04.
Code marked with ChangeLog entries of g10 Code employees.

LIBGCRYPT Timo Schulz 2001-08-31
Assigns past and future changes.
twoday@freakmail.de

LIBGCRYPT Simon Josefsson  2002-10-25
Assigns past and future changes to FSF (cipher/\{md4,crc\}.c, CTR mode, CTS/MAC flags, self test improvements)
simon@josefsson.org

LIBGCRYPT Moritz Schulte 2003-04-17
Assigns past and future changes.
moritz@g10code.com

GNUTLS Nikolaos Mavrogiannopoulos  2003-11-22
nmav@gnutls.org
Original code for cipher/rfc2268.c.

LIBGCRYPT The Written Word  2005-04-15
Assigns past and future changes. (new: src/libgcrypt.pc.in, src/Makefile.am, src/secmem.c, mpi/hppa1.1/mpih-mul3.S, mpi/hppa1.1/udiv-qrnd.S, mpi/hppa1.1/mpih-mul2.S, mpi/hppa1.1/mpih-mul1.S, mpi/Makefile.am, tests/prime.c, tests/register.c, tests/ac.c, tests/basic.c, tests/sexp.c, tests/keygen.c, tests/pubkey.c, configure.ac, acinclude.m4)

LIBGCRYPT Brad Hards  2006-02-09
Assigns Past and Future Changes
bradh@frogmouth.net
(Added OFB mode. Changed cipher/cipher.c, test/basic.c doc/gcrypt.tex. added SHA-224, changed cipher/sha256.c, added HMAC tests.)

LIBGCRYPT  Hye-Shik Chang  2006-09-07
Assigns Past and Future Changes
perky@freebsd.org
(SEED cipher)

LIBGCRYPT Werner Dittmann  2009-05-20
Assigns Past and Future Changes
werner.dittmann@t-online.de
(mpi/amd64, tests/mpitests.c)

GNUPG David Shaw
Assigns past and future changes.
dshaw@jabberwocky.com
(cipher/camellia-glue.c and related stuff)

LIBGCRYPT Andrey Jivsov  2010-12-09
Assigns Past and Future Changes
openpgp@brainhub.org
(cipher/ecc.c and related files)
LIBGCRYPT    Ulrich Müller    2012-02-15
Assigns Past and Future Changes
ulm@gentoo.org
(Changes to cipher/idea.c and related files)

LIBGCRYPT    Vladimir Serbinenko 2012-04-26
Assigns Past and Future Changes
phcoder@gmail.com
(cipher/serpent.c)

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Milan Broz <gmazyland@gmail.com>
2014-01-13:52D44CC6.4050707@gmail.com:
Libgcrypt used to be part of GnuPG but has been taken out into its own package on 2000-12-21.

Most of the stuff in mpi has been taken from an old GMP library version by Torbjorn Granlund <tege@noisy.tmg.se>.

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The ECC code cipher/ecc.c was based on code by Sergi Blanch i Torne, sergi at calcurco dot org.

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**1.1755 tomcat-ssi 9.0.63**

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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableWeakReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionList.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/DeadEvent.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Files.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/LineReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AbstractFuture.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Predicate.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Preconditions.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableSoftReference.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/FinalizableReferenceQueue.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Objects.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Charsets.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/Subscribe.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Objects.java
jar/com/google/common/io/ByteStreams.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ImmutableLongArray.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingLock.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ForwardingCondition.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/ToDoubleRounnder.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigDecimalMath.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/Java8Compatibility.java

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jar/com/google/common/collect/JdkBackedImmutableMultiset.java
* /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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  *
  * 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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  jar/com/google/common/util/concurrent/Striped.jav
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  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/primitives/UnsignedInts.jav
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/WrappingExecutorService.jav
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/AbstractScheduledService.jav
  */opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-
  jar/com/google/common/util/concurrent/UncheckedExecutionException.jav
* /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
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Absent.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/RemovalNotification.java
* /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
* /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/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
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/MathPreconditions.java
* /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
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AsyncFunction.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/BigIntegerMath.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/DoubleMath.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/collect/EmptyContiguousSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/cache/CacheLoader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/ParseRequest.java
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* /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/primitives/ParseRequest.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ImmutableSortedMultisetFauxverideShim.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/GeneralRange.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/ForwardingSortedMultiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedIterable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/RangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractRangeSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/Count.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/SortedIterables.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/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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 */
/*
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 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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* /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/base/Java8Usage.java
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  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
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/hash/HashingInputStream.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/VerifyException.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/eventbus/SubscriberExceptionHandler.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/AbstractTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collection/FilteredExceptionContext.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSequenceReader.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/base/Utf8.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/Runnables.java

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* /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/DefaultListMultimap.java

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/**
* Holder for extra methods of {@code Objects} only in web. Intended to be empty for regular<br/>* version.
*/

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jar/com/google/common/collect/ImmutableMapEntry.java
* /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/collcet/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/collcet/Serialization.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/StandardTable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/ImmutableListMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/PeekingIterator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/RegularImmutableMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/ImmutableMutiset.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/SingletonImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/RegularImmutableBiMap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/ImmutableSortedSet.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/ImmutableMapValues.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/Collections2.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1.jar/com/google/common/collcet/ImmutableMapEntrySet.java
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 */
/**
 * Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-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-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/collect/FilteredKeyMultimap.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/Closer.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/html/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/reflect/Parameter.java
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/html/package-info.java
jar/com/google/common/collection/ImmutableRangeMap.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
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jar/com/google/common/util/concurrent/ClosingFuture.java
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 * http://code.google.com/p/smhasher/source/browse/trunk/MurmurHash3.cpp, which contained the
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 * the License.
 */

/**
 * Outer class that exists solely to let us write {@code Partially.GwtIncompatible} 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.
 */

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* /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/Network.java
* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/util/concurrent/AtomicDoubleArray.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/io/InsecureRecursiveDeleteException.java
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* /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
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* /opt/cola/permits/1119092615_1608716259.54/0/guava-30-1-jre-sources-1-jar/com/google/common/primitives/Bytes.java
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jar/com/google/common/collect/ForwardingImmutableCollection.java
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jar/com/google/common/collect/UnmodifiableListIterator.java
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Not supported. <b>You are attempting to create a map that may contain a non-<code>Comparable</code> key.</b> Proper calls will resolve to the version in <code>ImmutableSortedMap</code>, not this dummy version.

@throws UnsupportedOperationException always

@deprecated <b>Pass a key of type <code>Comparable</code> to use <code>ImmutableSortedMap</code></b>.

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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.

1.1760 netty 4.1.68.Final

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1.1764 idna 2.10

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Found in path(s):
    * /opt/cola/permits/1110905341_1606871385.15/0/kjd-idna-v2-10-0-ge5c11db-1-tar-gz/kjd-idna-b8defb9/LICENSE.rst

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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)',
1.1765 etcd v3.4.9

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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THE BASIC LIBRARY FUNCTIONS
-------------------------------

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

University of Cambridge Computing Service,
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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.

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Last revised by Reagle $Date: 2005-07-19 12:33:09 -0400 (Tue, 19 Jul 2005) $
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For the following XML Schemas for Java EE Deployment Descriptors:
- javaee_5.xsd
- javaee_web_services_1_2.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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HAPROXY's license - 2006/06/15

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

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

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

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1.1786 selinux 2.6-3+b3

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This package was debianized by Colin Walters <walters@debian.org> on Thu, 3 Jul 2003 17:10:57 -0400.

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* /opt/cola/permits/1339752826_1654599336.01594/0/azure-storage-common-12-9-0-sources-jar/com/azure/storage/common/policy/StorageSharedKeyCredentialPolicy.java
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* /opt/cola/permits/1339752826_1654599336.01594/0/azure-storage-common-12-9-0-sources-jar/com/azure/storage/common/policy/StorageSharedKeyCredentialPolicy.java
* /opt/cola/permits/1339752826_1654599336.01594/0/azure-storage-common-12-9-0-sources-jar/com/azure/storage/common/policy/ResponseValidationPolicyBuilder.java
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* /opt/cola/permits/1339752826_1654599336.01594/0/azure-storage-common-12-9-0-sources-jar/com/azure/storage/common/sas/SasProtocol.java
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 */

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 * @deprecated Please use { @link AccountSasSignatureValues}
 */

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* /opt/cola/permits/1339752826_1654599336.01594/0/azure-storage-common-12-9-0-sources-jar/com/azure/storage/common/sas/AccountSasQueryParameters.java
1.1792 base-files 9.9+deb9u13

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1.1805 scowl 2018.04.16 1

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It was downloaded from:
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jseward@bzip.org
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1.1-0-final-sources-
  jar/javava/valiation/executable/ExecutableType.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1.1-0-final-sources-
  jar/javava/valiation/metadata/ReturnValueDescriptor.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
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jar/javax/validation/ReportAsSingleViolation.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/metadata/BeanDescriptor.java
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jar/javax/validation/constraints/DecimalMax.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/groups/package-info.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
jar/javax/validation/validation/constraints/DecimalMax.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-
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jar/javax/validation/ConstraintViolation.java
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jar/javax/validation/metadata/BeanDescriptor.java
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jar/javax/validation/validation/constraints/DecimalMax.java
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jar/javax/validation/validation/groups/package-info.java
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jar/javax/validation/ConstraintViolation.java
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jar/javax/validation/Validator.java
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* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/validation/bootstrap/GenericBootstrap.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/validation/constraints/Digits.java
* /opt/cola/permits/1005661449_1651084993.5/0/validation-api-1-1-0-final-sources-jar/validation/bootstrap/ProviderSpecificBootstrap.java
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1.1816 libxmu 1.1.2-2
1.1816.1 Available under license:

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

--- libxmu-1.1.2.orig/autogen.sh
+++ libxmu-1.1.2/autogen.sh
@@ -0,0 +1,14 @@
+#! /bin/sh
+
++ srcdir=`dirname $0`
+test -z "$srcdir" && srcdir=.
+ORIGDIR=`pwd`
+cd $srcdir
+
+autoreconf -v --install || exit 1
+cd $ORIGDIR || exit $?
+
+if test -z "$NOCONFIGURE"; then
  + $srcdir/configure "$@
+fi
--- libxmu-1.1.2.orig/debian/changelog
+++ libxmu-1.1.2/debian/changelog
@@ -0,0 +1,219 @@
+libxmu (2:1.1.2-2) unstable; urgency=medium
+
+ [ Andreas Boll ]
+ * Switch to dh with the autoreconf and quilt addons, fixing possible FTBFS
+ when building in parallel (closes: #801059). Thanks, Matthias Klose!
+
+ [ Julien Cristau ]
+ * Remove Cyril from Uploaders.
+ * Bump Standards-Version to 3.9.6, update Vcs-* control fields.
+
+ -- Julien Cristau <jcristau@debian.org>  Sat, 14 Nov 2015 10:04:44 +0100
+
+libxmu (2:1.1.2-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Add ${misc:Depends} to libxmu-headers.
+ * Use /usr/share/quilt/quilt.make instead of xsfbs for patching.
+ * Add build-[arch,indep] debian/rules targets.
+ * Bump debhelper compat level from 5 to 7.
+
+ -- Julien Cristau <jcristau@debian.org>  Mon, 05 May 2014 14:13:01 +0200
+
+libxmu (2:1.1.1-1) unstable; urgency=low
+
+ [ Julien Cristau ]
+ * New upstream release.
+ * Don't require (fake)root for debian/rules clean.
+ * Bump build-deps on xutils-dev, xmlto and xorg-sgml-doctools per
+ configure.ac.
+ * Xmu.html no longer hardcodes the full path to xlogo.svg, drop sed call
+ from debian/rules.
+ * Remove David Nusinow from Uploaders.
+ * Bump debhelper build-dep for ${misc:Pre-Depends} usage.
+
+ -- Julien Cristau <jcristau@debian.org>  Sat, 21 Apr 2012 10:50:11 +0200
libxmu (2:1.1.0-3) unstable; urgency=low

* Build for multiarch.

-- Steve Langasek <vorlon@debian.org>  Fri, 21 Oct 2011 14:47:59 -0700

libxmu (2:1.1.0-2) unstable; urgency=low

[ Christopher James Halse Rogers ]
* debian/patches/01_dont_export_private_deps.patch:
  - The Xmu.h header uses libXt symbols in a #define, so libXt is not a
    private dep. With binutils-gold, the indirect dependency on Xt is not
    considered when linking with Xmu so this causes build failures.

[ Julien Cristau ]
* Drop Pre-Depends on x11-common, only needed for upgrades from the
  monolith.

-- Julien Cristau <jcristau@debian.org>  Thu, 28 Apr 2011 14:10:11 +0200

libxmu (2:1.1.0-1) unstable; urgency=low

* New upstream release.
* Bump xutils-dev build-dep for new macros.
* Add xmlto, xorg-sgml-doctools, and w3m build-dep for the doc.
* Pass --with-xmito and --without-fop (we want html and txt only).
* Pass --docdir=/usr/share/doc/libxmu-headers and add this directory to
  libxmu-headers.install file.
* Remove the hardcoded path to the X logo in the Xmu.html file.
* Kill *.xml in the doc directory, no point in shipping them.
* Switch from --list-missing to --fail-missing for additional safety.

-- Cyril Brulebois <kibi@debian.org>  Fri, 19 Nov 2010 08:42:29 +0100

libxmu (2:1.0.5-2) unstable; urgency=high

[ Julien Cristau ]
* Rename the build directory to not include DEB_BUILD_GNU_TYPE for no
  good reason. Thanks, Colin Watson!
* Remove myself from Uploaders
* Don't pass both -s and -Nfoo/-pfoo to dh_strip. This resulted in an empty
  libxmuu1-dbg (Closes: #594500). Thanks to Luca Falavigna for the report.

[ Cyril Brulebois ]
* Add myself to Uploaders.
* Bump urgency to high for the RC bugfix. Thanks to Jakub Wilk as well
  for the report.
* New upstream release.
+ Fix 64bit support (closes: #521887)

* Bump Standards-Version to 3.8.3.

* New upstream release.
  + Fix 64bit support (closes: #521887)

* Bump Standards-Version to 3.8.3.

* Drop -1 debian revisions from build-deps.
* libxmu6{,-dbg}, libxmu-dev, libxmuu1{,-dbg} and libxmuu-dev don't need a dependency on x11-common.
* Build libxmu-headers in binary-indep instead of binary-arch
  (closes: #486418). Thanks, Martin Koepppe!
* Run autoreconf on build; build-depend on automake, libtool, xutils-dev.
* Handle parallel builds.

* Add a link to www.X.org and a reference to the upstream module in the long description.
* Add upstream URL to debian/copyright.
* Add README.source, bump Standards-Version to 3.8.2.
* Use updated xsfbs, closes: #538587.
* Move -dbg packages to section debug.

* New upstream release.
* Make libxmu*-dev depend on libxmu-headers (= ${source:Version}). Thanks, Josh Triplett.
* Don't export private dependencies in xmu.pc and xmuu.pc. These dependencies are handled by Requires.private.
* Due to the above, build-depend on quilt and apply the xsfbs patch rules.
* Update xsfbs to the latest version as of 2008-01-06.
* Add myself to Uploaders, and remove Branden and Fabio with their permission.
* Bump Standards-Version to 3.7.3 (no changes).
+ s/^XS-Vcs/Vcs/
+
+[ Timo Aaltonen ]
+ * Bump the epoch so that this can be synced to Ubuntu in the future.
+
+-- Julien Cristau <jcristau@debian.org> Thu, 17 Jan 2008 14:57:47 +0100
+
++libxmu (1:1.0.3-1) unstable; urgency=low
+
+ * New upstream release.
+ * Install the upstream changelog.
+ * Remove outdated CVS information from the package descriptions, and add
+  XS-Vcs-Git and XS-Vcs-Browser.
+ * Fix package sections (libraries in libs, development stuff in libdevel).
+ * Use ${binary:Version} instead of ${Source-Version}.
+
+-- Julien Cristau <jcristau@debian.org> Thu, 12 Apr 2007 13:40:07 +0200
+
++libxmu (1:1.0.2-2) unstable; urgency=low
+
+[ Andres Salomon ]
+ * Test for obj-$\text{(DEB\_BUILD\_GNU\_TYPE)}$ before creating it during build;
+  idempotency fix.
+
+[ Drew Parsons ]
+ * dbg package has priority extra.
+
+-- David Nusinow <dnusinow@debian.org> Wed, 30 Aug 2006 16:53:25 -0400
+
++libxmu (1:1.0.2-1) experimental; urgency=low
+
+ * New upstream release
+ * Bump debhelper compat to 5
+ * Run dh_install with --list-missing
+ * Version the -headers package's x11-common pre-dep to use version 1:7.0.0
+  to match the rest of Debian and shut lintian up
+ * Bump standards version to 3.7.2.0
+
+-- David Nusinow <dnusinow@debian.org> Mon,  3 Jul 2006 18:43:32 -0400
+
++libxmu (1:1.0.1-3) unstable; urgency=low
+
+ * Reorder makeshlib command in rules file so that ldconfig is run
+  properly. Thanks Drew Parsons and Steve Langasek.
+
+-- David Nusinow <dnusinow@debian.org> Tue, 18 Apr 2006 21:49:59 -0400
+
++libxmu (1:1.0.1-2) unstable; urgency=low
+ * Upload to unstable
+
+ -- David Nusinow <dnusinow@debian.org> Thu, 23 Mar 2006 22:44:59 -0500
+
+libxmu (1:1.0.1-1) experimental; urgency=low
+
+ * First upload to Debian
+
+ -- David Nusinow <dnusinow@debian.org> Thu, 29 Dec 2005 20:53:53 -0500
+
+libxmu (1:6.2.3-5) breezy; urgency=low
+
+ * Also, libxmu-dev needs to depend on libxt-dev too.
+
+ -- Adam Conrad <adconrad@ubuntu.com> Mon, 25 Jul 2005 09:43:47 +0000
+
+libxmu (1:6.2.3-4) breezy; urgency=low
+
+ * Bump libxtd-dev build-dep once more, _XOPEN_SOURCE begone!
+
+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 10:48:14 +0000
+
+libxmu (1:6.2.3-3) breezy; urgency=low
+
+ * Make libxmu-dev depend on libxext-dev, since libxmu links to it.
+
+ -- Adam Conrad <adconrad@ubuntu.com> Sun, 24 Jul 2005 07:56:02 +0000
+
+libxmu (1:6.2.3-2) breezy; urgency=low
+
+ * Bump Build-Depends on libx11-dev, libxext-dev and libxt-dev to avoid
+ _XOPEN_SOURCE.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Sat, 23 Jul 2005 00:20:50 +1000
+
+libxmu (1:6.2.3-1) breezy; urgency=low
+
+ * First libxmu release.
+
+ -- Daniel Stone <daniel.stone@ubuntu.com> Mon, 16 May 2005 22:10:17 +1000

--- libxmu-1.1.2.orig/debian/compat
+++ libxmu-1.1.2/debian/compat
@@ -0,0 +1 @@
+9
--- libxmu-1.1.2.orig/debian/control
+++ libxmu-1.1.2/debian/control
@@ -0,0 +1,155 @@
+Source: libxmu
+Section: x11
+Priority: optional
+Maintainer: Debian X Strike Force <debian-x@lists.debian.org>
+Build-Depends:
  + debootstrap (>= 9),
  + dh-autoreconf,
  + libx11-dev (>= 1:0.99.2),
  + libx11-dev (>= 1:0.99.1),
  + libxext-dev (>= 1:0.99.1),
  + pkg-config,
  + quilt,
  + automake,
  + libtool,
  + xutils-dev (>= 1:7.6+2),
  +# devel-docs:
  + xmlto (>= 0.0.22),
  + xorg-sgml-doctools (>= 1:1.8),
  + w3m,
+Standards-Version: 3.9.6
+Vcs-Git: git://anonscm.debian.org/git/pkg-xorg/lib/libxmu
+Vcs-Browser: https://anonscm.debian.org/cgit/pkg-xorg/lib/libxmu.git

Package: libxmu6
Section: libs
Architecture: any
Multi-Arch: same
Pre-Depends: ${misc:Pre-Depends}
Depends: ${shlibs:Depends}, ${misc:Depends}
Description: X11 miscellaneous utility library
libXmu provides a set of miscellaneous utility convenience functions for X
libraries to use. libXmu is a lighter-weight version that does not depend
on libXt or libXext; for more information, see libxmuu1.
.
More information about X.Org can be found at:
+ <URL:http://www.X.org>
+.
This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu

+Package: libxmu6-dbg
Section: debug
Architecture: any
Multi-Arch: same
Priority: extra
Depends: ${shlibs:Depends}, ${misc:Depends}, libxmu6 (= ${binary:Version})
Description: X11 miscellaneous utility library (debug package)
libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmumu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the debug versions of the library found in libxmu6.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+ Package: libxmu-dev
+ Section: libdevel
+ Architecture: any
+ Multi-Arch: same
+ Depends: ${shlibs:Depends}, ${misc:Depends}, libxext-dev, libxt-dev, libxmu6 (= ${binary:Version}), libxmu-
headers (= ${source:Version})
+ Description: X11 miscellaneous utility library (development headers)
+ libXmu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. libXmumu is a lighter-weight version that does not depend
+ on libXt or libXext; for more information, see libxmuu1.
+ .
+ This package contains the development headers for the library found in
+ libxmu6. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+ Package: libxmuu1
+ Section: libs
+ Architecture: any
+ Multi-Arch: same
+ Pre-Depends: ${misc:Pre-Depends}
+ Depends: ${shlibs:Depends}, ${misc:Depends}
+ Description: X11 miscellaneous micro-utility library
+ libXmumu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+Package: libxmuu1-dbg
+Section: debug
+Architecture: any
+Multi-Arch: same
+Priority: extra
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version})
+Description: X11 miscellaneous micro-utility library (debug package)
+ libxmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the debug versions of the library found in libxmuu1.
+ Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+ +Package: libxmuu-dev
+Section: libdevel
+Architecture: any
+Multi-Arch: same
+Depends: ${shlibs:Depends}, ${misc:Depends}, libxmuu1 (= ${binary:Version}), libxmu-headers (= ${source:Version})
+Description: X11 miscellaneous micro-utility library (development headers)
+ libxmuu provides a set of miscellaneous utility convenience functions for X
+ libraries to use. It is a lighter version of libXmu that does not depend
+ on libXt or libXext; for more information on libXmu, see libxmu6.
+ .
+ This package contains the development headers for the library found in
+ libxmuu1. Non-developers likely have little use for this package.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
+ +Package: libxmu-headers
+Section: libdevel
+Architecture: all
+Multi-Arch: foreign
+Depends:
+ libx11-dev,
+ x11proto-core-dev,
+ ${misc:Depends},
+ Description: X11 miscellaneous utility library headers
+ libXmu and libXmuu are miscellaneous utility libraries for X library
+ developers to abstract some common functions. This package provides the
+ headers for both libraries (as libXmuu is a subset of libXmu), and
+ is depended upon by both. For more information, please see libxmu-dev or
+ libxmuuu-dev.
+ .
+ More information about X.Org can be found at:
+ <URL:http://www.X.org>
+ .
+ This module can be found at
+ git://anongit.freedesktop.org/git/xorg/lib/libXmu
--- libxmu-1.1.2.orig/debian/copyright
+++ libxmu-1.1.2/debian/copyright
@@ -0,0 +1,77 @@
+This package was downloaded from
+http://xorg.freedesktop.org/releases/individual/lib/
+
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+
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+
----------
+
+Xmu/StrToBmap.c and Xmu/GrayPixmap.c also have:
+
+Copyright 1987, 1988 by Digital Equipment Corporation, Maynard, Massachusetts.
+
+ All Rights Reserved
+usr/lib/*libXmu.a
+usr/lib/*libXmu.so
+usr/lib/*pkgconfig/xmu.pc
--- libxmu-1.1.2.orig/debian/libxmu-headers.install
+++ libxmu-1.1.2/debian/libxmu-headers.install
@@ -0,0 +1,2 @@
+usr/include/X11/*
+usr/share/doc/libxmu-headers
--- libxmu-1.1.2.orig/debian/libxmu6.install
+++ libxmu-1.1.2/debian/libxmu6.install
@@ -0,0 +1 @@
+usr/lib/*libXmu.so.6*
--- libxmu-1.1.2.orig/debian/libxmuu-dev.install
+++ libxmu-1.1.2/debian/libxmuu-dev.install
@@ -0,0 +1,3 @@
+usr/lib/*libXmuu.a
+usr/lib/*libXmuu.so
+usr/lib/*pkgconfig/xmuu.pc
--- libxmu-1.1.2.orig/debian/libxmuu1.install
+++ libxmu-1.1.2/debian/libxmuu1.install
@@ -0,0 +1 @@
+usr/lib/*libXmuu.so.1*
--- libxmu-1.1.2.orig/debian/patches/01_dont_export_private_deps.diff
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmu.pc.in b/xmu.pc.in
+index a086f83..15dabbf 100644
+++ libxmu-1.1.2/debian/patches/01_dont_export_private_deps.diff
@@ -0,0 +1,26 @@
+diff --git a/xmuu.pc.in b/xmuu.pc.in
+index 1e91ac4..72fa5f9 100644
+++ a/xmuu.pc.in
++++ b/xmuu.pc.in
+@@ -6,7 +6,7 @@ includedir=@includedir@
 + Name: Xmu
 + Description: Xmu Library
 + Version: @PACKAGE_VERSION@
 + Requires: xproto x11 xt
 ++Requires: xproto xt
 + Requires.private: x11 xt xext
 + Cflags: -I$[includedir]
 + Libs: -L$[libdir] -lXmu
 +diff --git a/xmuu.pc.in b/xmuu.pc.in
+index a086f83..15dabbf 100644
+++ a/xmuu.pc.in
++++ b/xmuu.pc.in
+@@ -6,7 +6,7 @@ includedir=@includedir@
 + Name: Xmuu
 + Description: Mini Xmu Library
 + Version: @PACKAGE_VERSION@
 + Requires: xproto x11
 ++Requires: xproto
+ Requires.private: x11
+ Cflags: -I${includedir}
+ Libs: -L${libdir} -lXmuu
--- libxmu-1.1.2.orig/debian/patches/series
+++ libxmu-1.1.2/debian/patches/series
@@ -0,0 +1 @@
+01_dont_export_private_deps.diff
--- libxmu-1.1.2.orig/debian/rules
+++ libxmu-1.1.2/debian/rules
@@ -0,0 +1,34 @@
+#!/usr/bin/make -f
+# debian/rules for the Debian libxmu package.
+# Copyright 2004 Scott James Remnant <scott@netsplit.com>
+# Copyright 2005 Daniel Stone <daniel@fooishbar.org>
+# Copyright 2005 David Nusinow <dnusinow@debian.org>
+
+# Uncomment this to turn on verbose mode.
+#export DH_VERBOSE=1
+
+.PHONY: build
+build:
+dh build --with quilt,autoreconf --builddirectory=build/ --parallel
+
+%
+dh $@ --with quilt,autoreconf --builddirectory=build/ --parallel
+
+override_dh_auto_configure:
+dh_auto_configure --
+--disable-silent-rules
+--docdir=${prefix}/share/doc/libxmu-headers
+--with-xmlto
+--without-fop
+
+override_dh_auto_install:
+dh_auto_install
+find debian/tmp/usr/share/doc/libxmu-headers -name '*.xml' -delete
+
+override_dh_install-arch:
+dh_install --fail-missing -Xusr/include -X.la
+
+override_dh_strip:
+dh_strip -Nlibxmu6 -Nlibxmuu1
+dh_strip -plibxmu6 --dbg-package=libxmu6-dbgsym
+dh_strip -plibxmuu1 --dbg-package=libxmuu1-dbgsym
--- libxmu-1.1.2.orig/debian/watch
+++ libxmu-1.1.2/debian/watch
@@ -0,0 +1,3 @@
+##git=git://anongit.freedesktop.org/xorg/lib/libXmu
1.1817 zstd 1.4.9

1.1817.1 Available under license:

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 */
/**
 * Constructs a new [Textifier]. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the [Textifier(int)]
 * version.
 *
 * @throws IllegalState
 *           If a subclass calls this constructor.
 */

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* /opt/cola/permits/113640724_1613762512.96/0/asm-commons-5-0-4-sources-4- jar/org/objectweb/asm/util/Textifier.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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  jar/org/objectweb/asm/TypeReference.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/TypePath.java

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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. Subclasses must
   * not use this constructor. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *
   * @param typeRef
   *            a reference to the annotated type. See {@link TypeReference}.
   *
   * @param typePath
   *            the path to the annotated type argument, wildcard bound, array
   *            element type, or static inner type within 'typeRef'. May be
   *            <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   *
   * @param start
   *            the fist instructions corresponding to the continuous ranges
   *            that make the scope of this local variable (inclusive).
   *
   * @param end
   *            the last instructions corresponding to the continuous ranges
   *            that make the scope of this local variable (exclusive). This
   *            array must have the same size as the 'start' array.
   *
   * @param index
   *            the local variable's index in each range. This array must have
   *            the same size as the 'start' array.
   *
   * @param desc
   *            the class descriptor of the annotation class.
   */

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  jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/LineNumberNode.java
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  jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
  jar/org/objectweb/asm/tree/analysis/Frame.java
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  jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
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  jar/org/objectweb/asm/util/TraceMethodVisitor.java
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  jar/org/objectweb/asm/optimizer/ConstantPool.java
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  jar/org/objectweb/asm/MethodWriter.java
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  jar/org/objectweb/asm/Label.java
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  jar/org/objectweb/asm/tree/IntInsnNode.java
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  jar/org/objectweb/asm/tree/analysis/Analyzer.java
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jar/org/objectweb/asm/util/CheckFieldAdapter.java
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jar/org/objectweb/asm/FieldVisitor.java
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jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1136404724_1613762512.96/0/asm-commons-5-0-4-sources-4-
jar/org/objectweb/asm/ClassVisitor.java
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jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
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jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
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jar/org/objectweb/asm/tree/analysis/Subroutine.java
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/**
 * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
 * version.
 *
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

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 */
/**
* Creates a new JSRInliner. *Subclasses must not use this
* constructor*. 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#getInternalName() 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
 * [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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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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1.1835 openssl 1.1.1o-r0
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The End

1.1836 coreutils 8.30 3
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The basic library functions are written in C and are freestanding. Also included in the distribution is a set of C++ wrapper functions, and a just-in-time compiler that can be used to optimize pattern matching. These are both optional features that can be omitted when the library is built.

THE BASIC LIBRARY FUNCTIONS

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PCRE JUST-IN-TIME COMPILED SUPPORT

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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.
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Janino - An embedded Java[TM] compiler

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# Jackson JSON processor
Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007. It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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source: https://github.com/jmespath/jmespath.rb/blob/v1.4.0/LICENSE.txt

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### xwd v1.0.7

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## xwd v1.0.7

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Gallium code               src/gallium/            MIT
Ext headers                GL/glext.h             Khronos
                             GL/glxext.h            Khronos
                             GL/wglext.h             Khronos
                             KHR/khrplatform.h      Khronos

*****************************************************************************
----
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----
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include/GL/glxext.h
include/GL/wglxext.h :

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/**
 * 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#getInternalName() getInternalName}').  May be
 *          <tt>null</tt>.
 * @throws IllegalStateException
 *          If a subclass calls this constructor.
 */

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/**
 * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.
 *
 * @param mv            the method visitor to which this adapter delegates calls.
 * @param access        the method's access flags (see {@link Opcodes}).
 * @param name          the method's name.
 * @param desc          the method's descriptor (see {@link Type Type}).
 * @throws IllegalStateException If a subclass calls this constructor.
 */

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*/
/**
 * Constructs a new [Textifier]. <i>Subclasses must not use this
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 * version.
 *
 * @throws IllegalStateException
 *             If a subclass calls this constructor.
 */

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*/
/**
 * Constructs a new '{@link ClassNode}'. <i>Subclasses must not use this
 * constructor</i>. Instead, they must use the '{@link #ClassNode(int)}
 * version.
 *
 * @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/tree/ClassNode.java

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*/
/**
 * Constructs a new [@link LocalVariableAnnotationNode]. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * [@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)]
 * version.
 *
 * @param typeRef
 * a reference to the annotated type. See [@link TypeReference].
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the first instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of the annotation class.
 */

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/MethodVisitor.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/signature/SignatureVisitor.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}).
 * @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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1.1868 jcodings 1.0.44

1.1869 snowball-stemmer 1.3.0.581.1

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name 'BSD License'

Found in path(s):
* /opt/cola/permits/1136800001_1613902658.36/0/rholder-snowball-stemmer-v1-3-0-581-1-0-ge571676-1-targz/rholder-snowball-stemmer-c4996c7/build.gradle
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##What is this?
This is a repackaging of a version of the snowball-stemmer found at http://snowball.tartarus.org/ so that it’s available on Maven Central.

##Maven
```xml
<dependency>
<groupId>com.github.rholder</groupId>
<artifactId>snowball-stemmer</artifactId>
.VERSION>1.3.0.581.1</version>
</dependency>
```  

##Gradle
```groovy
compile "com.github.rholder:snowball-stemmer:1.3.0.581.1"
```  

##Versioning
In the absence of tags, branches, or releases in the original project SVN repository to call out a version, let’s go with what [PyStemmer](https://pypi.python.org/pypi/PyStemmer) is currently using and tack on the SVN revision.

---

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number at
the end followed by my patch revision number (to fix anything weird that I introduce). For the initial version, we'll
use 1.3.0.581.1.

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```markdown
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```

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* [https://github.com/snowballstem](https://github.com/snowballstem)

Found in path(s):
* /opt/cola/permits/1136800001_1613902658.36/0/rholder-snowball-stemmer-v1-3-0-581-1-0-ge571676-1-tar-gz/rholder-snowball-stemmer-c4996c7/README.md

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1.1870 swaggo-files 0.0.0-20210815190702-a29dd2bc99b2

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1.1871 error_prone_annotations 2.3.4

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* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/FormatString.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
jar/com/google/errorprone/annotations/DoNotMock.java
* /opt/ws_local/PERMITS_SQL/1059106420_1592475238.99/0/error-prone-annotations-2-3-4-sources-1-
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1.1877 rcrowley-go-metrics 0.0.0-20181016184325-3113b8401b8a

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

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

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

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

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1.1884 python-dateutil 2.8.2

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### 1.1891 console 1.10.1

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# Console

Provides beautiful console logging for Ruby applications. Implements fast, buffered log output.


## Features

- Thread safe global logger with per-fiber context.
- Carry along context with nested loggers.
- Enable/disable log levels per-class.
- Detailed logging of exceptions.
- Beautiful logging to the terminal or structured logging using JSON.

## Usage

Please see the [project documentation](https://socketry.github.io/console).

## Contributing

We welcome contributions to this project.
1. Fork it.
2. Create your feature branch (`git checkout -b my-new-feature`).
3. Commit your changes (`git commit -am 'Add some feature'`).
4. Push to the branch (`git push origin my-new-feature`).
5. Create new Pull Request.

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1.1896 pcre 8.39-12build1

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THE BASIC LIBRARY FUNCTIONS

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   file.
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %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 1, i32 4>
 ret <4 x i32> %r
}
; 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 = %CF246, %CF246
 store i8 %SI163, i8* %0
 br label %CF248

}
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Testing that masked scatters operating on scalable vectors that are packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv4i32(
; CHECK: call void @llvm.masked.scatter.nxv4i32
define void @masked_scatter_nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, <vscale x 4 x i1> %masks) {
call void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, %masks)
ret void
}

Testing that masked scatters operating on scalable vectors of FP data that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f64(
; CHECK: call void @llvm.masked.scatter.nxv2f64
define void @masked_scatter_nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, <vscale x 2 x i1> %masks) {
call void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, %masks)
ret void
}

Testing that masked scatters operating on scalable vectors of FP data that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f16(
; CHECK: call void @llvm.masked.scatter.nxv2f16
define void @masked_scatter_nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, <vscale x 2 x i1> %masks) {
call void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, %masks)
ret void
}

Testing that masked scatters operating on 64-bit fixed vectors are scalarized because NEON doesn't have support for masked scatter instructions.
; CHECK-LABEL: @masked_scatter_v2f32(
; CHECK-NOT: @llvm.masked.scatter.v2f32(
define void @masked_scatter_v2f32(<2 x float> %data, <2 x float*> %ptrs, <2 x i1> %masks) {
call void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 0, <2 x i1> %masks)
ret void
}

; Testing that masked scatters operating on 128-bit fixed vectors are
; scalarized because NEON doesn't have support for masked scatter
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_scatter_v4i32(
; CHECK-NOT: @llvm.masked.scatter.v4i32(
define void @masked_scatter_v4i32(<4 x i32> %data, <4 x i32*> %ptrs, <4 x i1> %masks) {
call void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 0, <4 x i1> %masks)
ret void
}

declare void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 %align, <vscale x 4 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32 %align, <vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, i32 %align, <vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 %align, <2 x i1> %masks)
declare void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 %align, <4 x i1> %masks)

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; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s 2>%t | FileCheck %s
; RUN: FileCheck --check-prefix=WARN --allow-empty %s <%t

; If this check fails please read test/CodeGen/AArch64/README for instructions on how to resolve it.
; WARN-NOT: warning

; Testing that masked gathers operating on scalable vectors that are packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv4i32(
; CHECK: call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32
define <vscale x 4 x i32> @masked_gather_nxv4i32(<vscale x 4 x i32*> %ld, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru) {
  %res = call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ld, i32 0, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru)
  ret <vscale x 4 x i32> %res
}

; Testing that masked gathers operating on scalable vectors of FP data that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f64(
; CHECK: call <vscale x 2 x double> @llvm.masked.gather.nxv2f64
define <vscale x 2 x double> @masked_gather_nxv2f64(<vscale x 2 x double*> %ld, <vscale x 2 x i1> %masks, <vscale x 2 x double> %passthru) {
  %res = call <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ld, i32 0, <vscale x 2 x i1> %masks, <vscale x 2 x double> %passthru)
  ret <vscale x 2 x double> %res
; Testing that masked gathers operating on scalable vectors of FP data
; that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f16()
; CHECK: call <vscale x 2 x half> @llvm.masked.gather.nxv2f16
define <vscale x 2 x half> @masked_gather_nxv2f16(<vscale x 2 x half*> %ld, <vscale x 2 x i1> %masks, <vscale x 2 x half> %passthru) {
    %res = call <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ld, i32 0, <vscale x 2 x i1> %masks, <vscale x 2 x half> %passthru)
    ret <vscale x 2 x half> %res
}

; Testing that masked gathers operating on 64-bit fixed vectors are scalarized because NEON doesn't have support for masked gather instructions.

; CHECK-LABEL: @masked_gather_v2f32()
; CHECK-NOT: @llvm.masked.gather.v2f32(
define <2 x float> @masked_gather_v2f32(<2 x float*> %ld, <2 x i1> %masks, <2 x float> %passthru) {
    %res = call <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ld, i32 0, <2 x i1> %masks, <2 x float> %passthru)
    ret <2 x float> %res
}

; Testing that masked gathers operating on 128-bit fixed vectors are scalarized because NEON doesn't have support for masked gather instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_gather_v4i32()
; CHECK-NOT: @llvm.masked.gather.v4i32(
define <4 x i32> @masked_gather_v4i32(<4 x i32*> %ld, <4 x i1> %masks, <4 x i32> %passthru) {
    %res = call <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ld, i32 0, <4 x i1> %masks, <4 x i32> %passthru)
    ret <4 x i32> %res
}

declare <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ptrs, i32 %align, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru)
declare <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ptrs, i32 %align, <vscale x 2 x i1> %masks, <vscale x 2 x double> %passthru)
declare <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ptrs, i32 %align, <vscale x 2 x i1> %masks, <vscale x 2 x half> %passthru)
declare <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ptrs, i32 %align, <2 x i1> %masks, <2 x float> %passthru)
declare <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ptrs, i32 %align, <4 x i1> %masks, <4 x i32> %passthru)
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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py
; RUN: opt -S -verify -iroutliner -ir-outlining-no-cost < %s | FileCheck %s

; This test looks ahecks that debug info is extracted along with the other
; instructions.

define void @function1() !dbg !6 {
    ; CHECK-LABEL: @function1(
    ; CHECK-NEXT: entry:
define void @function2() { entry:

%a = alloca i32, align 4, !dbg !17

store i32 2, i32* %a, align 4, !dbg !20

%al = load i32, i32* %a, align 4, !dbg !23

call void @outlined_ir_func_0(i32* %a, i32* %b, i32* %c), !dbg !25

ret void, !dbg !26
}

define void @function2() { entry:

%a = alloca i32, align 4, !dbg !17

store i32 2, i32* %a, align 4, !dbg !20

%al = load i32, i32* %a, align 4, !dbg !23

call void @outlined_ir_func_0(i32* %a, i32* %b, i32* %c), !dbg !25

ret void, !dbg !26
}
call void @llvm.dbg.value(metadata i32* %a, metadata !29, metadata !DIExpression()), !dbg !35
%b = alloca i32, align 4, !dbg !36
call void @llvm.dbg.value(metadata i32* %b, metadata !30, metadata !DIExpression()), !dbg !36
%c = alloca i32, align 4, !dbg !37
store i32 2, i32* %a, align 4, !dbg !38
store i32 3, i32* %b, align 4, !dbg !39
store i32 4, i32* %c, align 4, !dbg !40
%al = load i32, i32* %a, align 4, !dbg !41
call void @llvm.dbg.value(metadata i32 %al, metadata !32, metadata !DIExpression()), !dbg !41
%bl = load i32, i32* %b, align 4, !dbg !42
call void @llvm.dbg.value(metadata i32 %bl, metadata !33, metadata !DIExpression()), !dbg !42
%cl = load i32, i32* %c, align 4, !dbg !43
call void @llvm.dbg.value(metadata i32 %cl, metadata !34, metadata !DIExpression()), !dbg !43
ret void, !dbg !44
}

; Function Attrs: nounwind readnone speculatable willreturn
declare void @llvm.dbg.value(metadata, metadata, metadata) #0

attributes #0 = { nounwind readnone speculatable willreturn }

!!llvm.dbg.value = !{!!0}
!!llvm.debugify = !{!!13, !!4}
!!llvm.module.flags = !{!!5}

!!0 = distinct !DiCompileUnit(language: DW_LANG_C, file: !1, producer: "debugify", isOptimized: true, runtimeVersion: 0, emissionKind: FullDebug, enums: !!2)
!!1 = !DiFile(filename: "legal-debug.ll", directory: "/")
!!2 = !{{}
!!3 = ![i32 20]
!!4 = ![i32 12]
!!5 = ![i32 2, !"Debug Info Version", i32 3]
!!6 = distinct !DiSubprogram(name: "function1", linkageName: "function1", scope: null, file: !1, line: 1, type: !!7, scopeLine: 1, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !!0, retainedNodes: !!8)
!!7 = !DiSubroutineType(types: !!2)
!!8 = ![!!9, !!11, !!12, !!13, !!15, !!16]
!!9 = !DiLocalVariable(name: "1", scope: !!6, file: !!1, line: 1, type: !!10)
!!10 = !DiBasicType(name: "ty64", size: 64, encoding: DW_ATE_unsigned)
!!11 = !DiLocalVariable(name: "2", scope: !!6, file: !!1, line: 2, type: !!10)
!!12 = !DiLocalVariable(name: "3", scope: !!6, file: !!1, line: 3, type: !!10)
!!13 = !DiLocalVariable(name: "4", scope: !!6, file: !!1, line: 7, type: !!14)
!!14 = !DiBasicType(name: "ty32", size: 32, encoding: DW_ATE_unsigned)
!!15 = !DiLocalVariable(name: "5", scope: !!6, file: !!1, line: 8, type: !!14)
!!16 = !DiLocalVariable(name: "6", scope: !!6, file: !!1, line: 9, type: !!14)
!!17 = !DiLocation(line: 1, column: 1, scope: !!6)
!!18 = !DiLocation(line: 2, column: 1, scope: !!6)
!!19 = !DiLocation(line: 3, column: 1, scope: !!6)
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; 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]+][%r{[sb]}]p) # 16-byte Spill
; CHECK-NEXT:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  callq __gttf2
; CHECK-NEXT:  movl %eax, %ebx
; CHECK-NEXT:  movaps (%rsp), %xmm0 # 16-byte Reload
; CHECK-NEXT:  movaps [[-0-9]+][%r{[sb]}]p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .LBB0_2:
; CHECK-NEXT:  xorps %xmm0, %xmm0
; CHECK-NEXT:  .LBB0_2:
; CHECK-NEXT:  addq $32, %rsp
; CHECK-NEXT:  .cfi_def_cfa_offset 16
; CHECK-NEXT:  popq %rbx
; CHECK-NEXT:  .cfi_def_cfa_offset 8
; 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:   # %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:  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
}

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, double 64.0, double 64.0>
    ret <16 x double> %res
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 that for i16 type, the maximum legal offset is 62.
; CHECK: foo_i16

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
}

@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
}
define void @foo_i32() {
entry:
%0 = load volatile i32, i32* inttoptr (i32 805874816 to i32*), align 4
%1 = load volatile i32, i32* inttoptr (i32 805874692 to i32*), align 4
%2 = load volatile i32, i32* inttoptr (i32 805874720 to i32*), align 4
%3 = load volatile i32, i32* inttoptr (i32 805874750 to i32*), align 4
%4 = load volatile i32, i32* inttoptr (i32 805874752 to i32*), align 4
%5 = load volatile i32, i32* inttoptr (i32 805874774 to i32*), align 4
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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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py
; 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
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>* [[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 @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>* [[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_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 = 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
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>* [[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 @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define ![^@]+]@avx512_legal512_prefer256_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]], 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_prefer256_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
}
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
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    ; CHECK-LABEL: define ([^@]+) @callee_avx512_legal512_prefer512_call_avx512_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 @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]], 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_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 = load <8 x i64>, <8 x i64>* %arg
    %tmp2 = load <8 x i64>, <8 x i64>* %tmp
    %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 {
    ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1:%%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: store <8 x i64> [[ARG1:%.*]], <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 @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:
    ; 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_prefer256_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 = 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_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>* [[ARG:%.*]], <8 x i64>*readonly [[ARG1:%%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
    ; CHECK-LABEL: define {{\[^@\]+}}@avx512_legal256_prefer256_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]], i8 0, i64 32, i1 false)
    ; CHECK-NEXT: call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
    ; 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
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
    ; CHECK-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
    ; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
    ; CHECK-NEXT: ret void
}

; This should not promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {
    ; CHECK-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>* readonly [[ARG1:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
    ; CHECK-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]]
    ; 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_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

ret void

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
 ; CHECK-LABEL: define {{\[^@\]+}}@avx512_legal512_prefer256_call_avx512_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: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* [[TMP2]], <8 x i64>* [[TMP]])
 ; 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_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:

define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #4 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
  call void @llvm.memset.p0i8.i64(i8* align 32 %arg1, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg2, <8 x i64>* %arg)
  store <8 x i64> %arg2, <8 x i64>* %arg, align 2
  ret void
}

; This should promote
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  ; CHECK-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
  call void @llvm.memset.p0i8.i64(i8* align 32 %arg, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg)
  store <8 x i64> %arg, <8 x i64>* %arg, align 2
  ret void
}
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
    %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 {
    %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
}
define internal i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %X, i32* %Y) #2 {
    %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_legal256_prefer256(i32* %B) #2 {
    %A = alloca i32
    store i32 1, i32* %A
    %C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B)
    ret i32 %C
}

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 = { argnemonly 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 -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 dso_local void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
define dso_local 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 
%f = add <16 x i32> %d, %e 
store <16 x i32> %f, <16 x i32>* %c 
ret void 
} 

define dso_local void @add512(<16 x i32>* %a, <16 x i32>* %b) "min-legal-vector-width"="512" { 
; CHECK-LABEL: add512: 
; CHECK: # %bb.0: 
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0 
; CHECK-NEXT: vpadd <32(%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 dso_local 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 <32(%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>  
%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>  
%8 = trunc <64 x i32> %7 to <64 x i8>  
store <64 x i8> %8, <64 x i8>* undef, align 4  
ret void  
}  

define dso_local 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, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, 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>  
%8 = trunc <64 x i32> %7 to <64 x i8>  
store <64 x i8> %8, <64 x i8>* undef, align 4  
ret void  
}  

define dso_local 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), %ymm0  
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1  
; CHECK-NEXT: vzeroupper  
; CHECK-NEXT: retq  
}
define dso_local 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 dso_local 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), %yymm0
; CHECK-NEXT: vpmaddwd (%rsi), %yymm0, %yymm0
; CHECK-NEXT: vmovdqa %yymm1, 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 dso_local void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {}  

define dso_local i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {}
%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>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, 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>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}
define dso_local 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:  # ==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 %zmm0, %zmm1, %zmm0
    ; CHECK-NEXT:    vextracti64x4 %zmm0, %zmm0
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm0
    ; CHECK-NEXT:    vextracti128 %zmm0, %zmm0
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm0
    ; CHECK-NEXT:    vpaddd %zmm0, %zmm0

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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, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
  %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
  %rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, 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>
  %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 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, 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>
  %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 4, i32 5, i32 6, i32 7, i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, 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>}
%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 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, 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 = dso_local global [1024 x i8] zeroinitializer, align 16
@b = dso_local global [1024 x i8] zeroinitializer, align 16
define dso_local i32 @sad_16i8_256() "min-legal-vector-width"="256" {
  ; CHECK-LABEL: sad_16i8_256:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
  ; CHECK-NEXT:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB10_1: # %vector.body
  ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm2
  ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm2, %xmm2
  ; CHECK-NEXT:    vpaddd %ymm1, %ymm2, %ymm1
  ; CHECK-NEXT:    addq $4, %rax
  ; CHECK-NEXT:    jne .LBB10_1
  ; CHECK-NEXT:  # %bb.2: # %middle.block
  ; CHECK-NEXT:    vpaddd %ymm0, %ymm1, %ymm0
  ; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:    vpaddd %xmm1, %xmm0, %xmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
  ; CHECK-NEXT:    vpaddd %ymm1, %ymm0, %ymm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
  ; 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> [ 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>*
%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> %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:
%rdx.shuf = shufflevector <16 x i32> %10, <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> %10, %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>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define dso_local 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:     ; CHECK-NEXT:   # %bb.2: # %middle.block
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; 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[2,3,2,3]
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vpaddd %zmm1, %zmm0, %zmm0
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
  %0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
  %1 = bitcast i8* %0 to <16 x i8>*
  %wide.load = load <16 x i8>, <16 x i8>* %1, align 4
  %2 = zext <16 x i8> %wide.load to <16 x i32>
  %3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
  %4 = bitcast i8* %3 to <16 x i8>*
  %wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
  %5 = zext <16 x i8> %wide.load1 to <16 x i32>
  %6 = sub nsw <16 x i32> %2, %5
  %7 = icmp sgt <16 x i32> %6, <i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
  %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, 1024
  br i1 %11, label %middle.block, label %vector.body

middle.block:
  %rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx = add <16 x i32> %10, %rdx.shuf
  %rdx.shuf2 = shufflevector <16 x i32> %bin.rdx, <16 x i32> undef, <16 x i32> i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
  %bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
  %rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> i32 2, i32 3, i32 4, i32 5, i32 6, i32 7, 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
define dso_local 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: vcvtldq2ps %ymm0, %ymm0
    ; CHECK-NEXT: vpmovm2d %k0, %ymm1
    ; CHECK-NEXT: vcvtldq2ps %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 dso_local void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
CHECK-LABEL: sbto16f32_512:
    ; CHECK-NEXT: vpmovw2m %ymm0, %k0
    ; CHECK-NEXT: vpmovm2d %k0, %zmm0
    ; CHECK-NEXT: vcvtldq2ps %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 dso_local 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: vcvtldq2pd %zmm0, %zmm1
define dso_local 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:  vcvtq2pd %ymm0, %zmm1
    CHECK-NEXT:  vextracti64x4 $1, %zmm0, %ymm0
    CHECK-NEXT:  vcvtdq2ps %ymm0, %ymm0
    CHECK-NEXT:  vpmovm2d %k0, %ymm1
    CHECK-NEXT:  vpsrld $31, %ymm1, %ymm1
    CHECK-NEXT:  vmovaps %zmm1, (%rdi)
    CHECK-NEXT:  vmovaps %ymm1, 64(%rdi)
    CHECK-NEXT:  vzeroupper
    CHECK-NEXT:  retq
    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %l = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %l, <16 x double>* %res
  ret void
}

define dso_local 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:  vpmovm2d %k0, %zmm0
    CHECK-NEXT:  vcvtq2pd %ymm0, %zmm1
    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, zeroinitializer
    %l = sitofp <16 x i1> %mask to <16 x double>
    store <16 x double> %l, <16 x double>* %res
  ret void
}
define dso_local void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f32_512:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vpmovw2m %ymm0, %k0
; CHECK-NEXT:   vpmovm2d %k0, %zmm0
; CHECK-NEXT:   vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:   vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:   vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:   vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:   vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:   vextracti128 $1, %ymm3, %xmm3
; CHECK-NEXT:   vcvt2pd %xmm3, %xmm0
; CHECK-NEXT:   vpmovaps %zmm0, (%rdi)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%mask = icmp slt <16 x i16> %a, zero_initializer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define dso_local 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:   vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:   vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:   vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:   vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:   vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:   vextracti128 $1, %ymm3, %xmm3
; CHECK-NEXT:   vcvt2pd %xmm3, %xmm0
; CHECK-NEXT:   vpmovaps %zmm0, 32(%rdi)
; CHECK-NEXT:   vpmovaps %zmm0, (%rdi)
; CHECK-NEXT:   vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:   vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:   vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:   vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:   vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:   vextracti128 $1, %ymm3, %xmm3
; CHECK-NEXT:   vcvt2pd %xmm3, %xmm0
; CHECK-NEXT:   vpmovaps %zmm0, 96(%rdi)
; CHECK-NEXT:   vpmovaps %zmm0, (%rdi)
; CHECK-NEXT:   vpsrld $31, %zmm0, %zmm0
; CHECK-NEXT:   vcvtdq2ps %zmm0, %zmm0
; CHECK-NEXT:   vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT:   vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT:   vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT:   vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT:   vextracti128 $1, %ymm3, %xmm3
; CHECK-NEXT:   vcvt2pd %xmm3, %xmm0
; CHECK-NEXT:   vpmovaps %zmm0, 64(%rdi)
; CHECK-NEXT:   vpmovaps %zmm0, (%rdi)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%mask = icmp slt <16 x i16> %a, zero_initializer
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}
store <16 x double> %1, <16 x double>* %res
ret void
}
define dso_local void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f64_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:   vpmovm2d %k0, %zmm0
    ; CHECK-NEXT:   vpsrl $31, %zmm0, %zmm0
    ; CHECK-NEXT:   vcvtq2pd %ymm0, %zmm0
    ; CHECK-NEXT:   vextracti64x4 31, %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, 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:   vcvtq2dq (%rdi), %ymm1
    ; CHECK-NEXT:   vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:   vcvtq2dq 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:   vcvtq2dq (%rdi), %ymm1
    ; CHECK-NEXT:   vpslld $31, %ymm1, %ymm1
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 = fptosii <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: vcvttps2dq 32(%rdi), %zmm1
  ; CHECK-NEXT: vpmovd2m %zmm1, %k1
  ; CHECK-NEXT: vpunpckhbw {{.*#+}} ymm4 =
  ; 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 dso_local 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 =
define dso_local void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
    %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-VBMI-NEXT: vcmovdqa {{.*#+}} ymm3 =
; CHECK-VA512-NEXT: vcmovdqa64 (%rdi), %zmm0
; CHECK-VA512-NEXT: vcmovdqa64 (%rsi), %zmm1
; CHECK-VA512-NEXT: vpunpckhbw {{.*#+}} ymm4 =
; CHECK-CAVX512-NEXT: vpunpckhbw {{.*#+}} ymm5 =
; CHECK-VA512-NEXT: vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VA512-NEXT: vzeroupper
; CHECK-VA512-NEXT: retq
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; CHECK-AVX512-NEXT:  vpandq %zmm3, %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vpackuswb %zmm2, %zmm0, %zmm0
; CHECK-AVX512-NEXT:  vmovdqa64 %zmm0, (%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq
;
; CHECK-VBMI-LABEL:  mul512:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa64 (%rdi), %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 (%rsi), %zmm1
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm2 = zmm1[8,9,9,10,10,11,11,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4,2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm3 = zmm0[8,9,9,10,10,11,11,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4,2,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; 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:  vpermi2b %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>
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:   vmovdqa 64(%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:   vpmovqd %ymm3, %xmm0
    ; CHECK-NEXT:   vpmovqd %ymm2, %xmm1
    ; CHECK-NEXT:   vpmovqd %ymm1, %xmm2
    ; CHECK-NEXT:   vpmovqd %ymm0, %xmm3
    ; CHECK-NEXT:   vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
    ; CHECK-NEXT:   vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
    ; CHECK-NEXT:   vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
    ; CHECK-NEXT:   vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
    ; CHECK-NEXT:   vzeroupper
    ; CHECK-NEXT:   retq
    %a = load <16 x i64>, <16 x i64>* %x
    %b = trunc <16 x i64> %a to <16 x i8>
    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:
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: vpsrlq $48, 32(%rdi), %ymm0
    ; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm1
    ; CHECK-NEXT: vpmovq %ymm0, %ymm1
    ; CHECK-NEXT: vpmovq %ymm1, %ymm0
    ; CHECK-NEXT: vpackusdw %ymm0, %ymm1, %ymm0
    ; 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
}

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: vpsrlq $48, 32(%rdi), %ymm0
    ; CHECK-NEXT: vpsrlq $48, (%rdi), %ymm1
    ; CHECK-NEXT: vpmovq %ymm0, %ymm1
    ; CHECK-NEXT: vpmovq %ymm1, %ymm0
    ; CHECK-NEXT: vpackusdw %ymm0, %ymm1, %ymm0
    ; 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_zeros(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {  
    ; CHECK-LABEL: trunc_v8i64_v8i32_zeros:
    ; CHECK:    # %bb.0:
    ; CHECK-NEXT: vpmovq %ymm0, %ymm1
    ; CHECK-NEXT: vpmovq %ymm1, %ymm0
    ; CHECK-NEXT: vpmovq %ymm0, %ymm1
    ; CHECK-NEXT: vpmovq %ymm1, %ymm0
    ; CHECK-NEXT: vpackusdw %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %a = load <8 x i64>, <8 x i64>* %x
    %b = trunc <8 x i64> %a to <8 x i32>
    ret <8 x i32> %b
}
```assembly
; vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; 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: vpermi2w 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>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i16> @trunc_v32i16_v32i16_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
 ; CHECK-AVX512-LABEL: trunc_v32i16_v32i16_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: vpermi2b 32(%rdi), %ymm1, %ymm0
 ; CHECK-AVX512-NEXT: retq
 ;
 ; CHECK-VBMI-LABEL: trunc_v32i16_v32i16_zeroes:
 ; 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 = 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:
```
define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v16i32_v16i16_sign:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:    vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:    vpsrlw $8, (%rdi), %ymm1
; CHECK-AVX512-NEXT:    vpackuswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:    vpermq [{.*#+}] ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    vpermq [{.*#+}] ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:    retq
%a = load <16 x i32>, <16 x i32>* %x
%b = ashr <16 x i32> %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 i16>
ret <32 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VBMI:       # %bb.0:
; CHECK-VBMI-NEXT:    vmovdqa (%rdi), ymm1
; CHECK-VBMI-NEXT:    vpmovqd ymm1, %xmm1
; CHECK-VBMI-NEXT:    vpmovqd %ymm0, %xmm0
; CHECK-VBMI-NEXT:    vinseri128 $1, %xmm0, %ymm1, %ymm0
; CHECK-VBMI-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 i32> %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:    vpmovqd ymm1, %xmm1
; CHECK-NEXT:    vpmovqd %ymm0, %xmm0
; CHECK-NEXT:    vinseri128 $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 i32> %b to <8 x i32>
ret <8 x i32> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v32i16_v32i8_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:    vmovdqa (%rdi), ymm1
; CHECK-NEXT:    vpmovqd ymm1, %xmm1
; CHECK-NEXT:    vpmovqd %ymm0, %xmm0
; CHECK-NEXT:    vinseri128 $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 i32> %b to <8 x i32>
ret <8 x i32> %c
}
define dso_local 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: vpmovzxwq {{.*#+}} ymm2 =
 xmm2[0],zero,zero,xmm2[1],zero,zero,xmm2[2],zero,zero,xmm2[3],zero,zero,zero
 ; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
 ; CHECK-NEXT: vpmovzxwq {{.*#+}} ymm3 =
 xmm3[0],zero,zero,xmm3[1],zero,zero,xmm3[2],zero,zero,xmm3[3],zero,zero,zero
 ; CHECK-NEXT: vpmovzxbq %ymm0, %ymm0
 ; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
 ; CHECK-NEXT: vmovdqa %ymm1, 64(%rdi)
 ; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)
 ; CHECK-NEXT: vmovdqa %ymm2, 32(%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq

%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}

define dso_local 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: vpmovzxbw %xmm0, %ymm1
 ; CHECK-NEXT: vpmovzxwq %xmm2, %ymm2
 ; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
 ; CHECK-NEXT: vpmovzxwq %xmm3, %ymm3
 ; CHECK-NEXT: vpmovzxbq %xmm0, %ymm0
 ; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
 ; CHECK-NEXT: vmovdqa %ymm1, 64(%rdi)
 ; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)
 ; CHECK-NEXT: vmovdqa %ymm2, 32(%rdi)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
define dso_local 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" 
  
define dso_local 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" 

define dso_local 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: vmovdqa32(8(%rsi), %ymm3
    ; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
    ; CHECK-NEXT: kshiftrw $8, %k1, %k2
    ; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 [%k2]
    ; CHECK-NEXT: vselect_split_v16i16_setcc:
    ; CHECK-NEXT: vmovdqa %ymm2
    ; 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 dso_local 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: vmovdqa32(8(%rsi), %ymm3
    ; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
    ; CHECK-NEXT: kshiftrw $8, %k1, %k2
    ; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 [%k2]
    ; CHECK-NEXT: vselect_split_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
define dso_local 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  
; 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 <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 dso_local void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
  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, %k1
  CHECK-NEXT:  kshiftrq $63, %k0, %k2
  CHECK-NEXT:  kshiftrq $62, %k2, %k2
  CHECK-NEXT:  korq %k2, %k1, %k1
  CHECK-NEXT:  movq $-5, %rax
  CHECK-NEXT:  kmovq %rax, %k2
  CHECK-NEXT:  kandq %k2, %k1, %k1
  CHECK-NEXT:  kshiftrq $63, %k0, %k2
  CHECK-NEXT:  kshiftrq $62, %k2, %k2
  CHECK-NEXT:  korq %k2, %k1, %k1
  CHECK-NEXT:  movq $-9, %rax
  CHECK-NEXT:  kmovq %rax, %k2
  CHECK-NEXT:  kandq %k2, %k1, %k1
  CHECK-NEXT:  kshiftrd $3, %k0, %k2
  CHECK-NEXT:  kshiftlq $63, %k2, %k2
  CHECK-NEXT:  kshiftrq $61, %k2, %k2
  CHECK-NEXT:  korq %k2, %k1, %k1
  CHECK-NEXT:  movq $-17, %rax
  CHECK-NEXT:  kmovq %rax, %k2
  CHECK-NEXT:  kandq %k2, %k1, %k1
  CHECK-NEXT:  kshiftrq $63, %k0, %k2
  CHECK-NEXT:  kshiftrq $60, %k2, %k2
  CHECK-NEXT:  korq %k2, %k1, %k1
  CHECK-NEXT:  movq $-33, %rax
  CHECK-NEXT:  kmovq %rax, %k2
  CHECK-NEXT:  kandq %k2, %k1, %k1
  CHECK-NEXT:  kshiftrq $59, %k0, %k2
  CHECK-NEXT:  kshiftrq $58, %k2, %k2
  CHECK-NEXT:  korq %k2, %k1, %k1
  CHECK-NEXT:  movq $-65, %rax
  CHECK-NEXT:  kmovq %rax, %k2
  CHECK-NEXT:  kandq %k2, %k1, %k1
  CHECK-NEXT:  kshiftrd $7, %k0, %k2
  CHECK-NEXT:  kshiftrq $57, %k2, %k2
  CHECK-NEXT:  korq %k2, %k1, %k1
  \}
; CHECK-NEXT:  movq $-129, %rax
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $6, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $56, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $9, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $55, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-513, %rax # imm = 0xFDFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $8, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $54, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1025, %rax # imm = 0xFBFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $11, %k0, %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 = 0xFFFEEFFF
; 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:    kshiftrd $16, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $46, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-262145, %rax # imm = 0xFFFFBFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $19, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $45, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-524289, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $21, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $44, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-1048577, %rax # imm = 0xFFF7FFFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $21, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $63, %k2, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $36, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $268435457, %rax # imm = 0xFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $29, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $35, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-536870913, %rax # imm = 0xFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $28, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $34, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $-1073741825, %rax # imm = 0xFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $31, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $33, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movabsq $-2147483649, %rax # imm = 0xFFFFFFFF7FFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k2
; 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 = 0xFFFFFFFFFFFFFFF
; 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 = 0xFFFFFFFFDFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k1, %k2
; CHECK-NEXT:  kshiftrq $30, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-17179869185, %rax # imm = 0xFFFFFFFFBFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; 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 = 0xFFFFDFFFFFFFFFFFFF
; 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 $-112589906842625, %rax # imm = 0xFFFFBFFFFFFFFFFFFF
; 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 = 0xFFF7FFFFFFFFFFFFF
; 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 $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 = 0xFFF7FFFFFFFFFFFFF
; 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 = 0xFFF7FFFFFFFFFFFFF
; 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 = 0xFEFFFFFFFFFFFFFFF
; 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 = 0xFDFFFFFFFFFFFFFFF
; 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 $-288230376151711745, %rax # imm = 0xFBFFFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $27, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $5, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-576460752303423489, %rax # imm = 0xF7FFFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $26, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $4, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-1152921504606846977, %rax # imm = 0xEFFFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $29, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $3, %k2, %k2
; CHECK-NEXT:   korq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-2305843009213693953, %rax # imm = 0xDFFFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $28, %k1, %k2
; CHECK-NEXT:   kshiftlq $63, %k2, %k2
; CHECK-NEXT:   kshiftrq $2, %k2, %k2
; CHECK-NEXT:   kshiftrq $2, %k2, %k2
entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitializer
  %shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> <i32 1, i32 0, i32 3, i32 2, i32 5, i32 4, i32 7, i32 6, i32 9, i32 8, i32 11, i32 10, i32 13, i32 12, i32 15, i32 14, i32 17, i32 16, i32 19, i32 18, i32 21, i32 20, i32 23, i32 22, i32 25, i32 24, i32 27, i32 26, i32 29, i32 28, i32 31, i32 30, i32 33, i32 32, i32 35, i32 34, i32 37, i32 36, i32 39, i32 38, i32 41, i32 40, i32 43, i32 42, i32 45, i32 44, i32 47, i32 46, i32 49, i32 48, i32 51, i32 50, i32 53, i32 52, i32 55, i32 54, i32 57, i32 56, i32 59, i32 58, i32 61, i32 60, i32 63, i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, <64 x i8>* %shuf)
ret void
}
define dso_local 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:  vpcmpltq 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT:  vpcmpltq (%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 dso_local 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:  vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT:  vpcmpltq 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT:  vpcmpltq (%rdi), %ymm0, %ymm0
    ; CHECK-NEXT:  vpsrlq $63, %ymm1, %ymm1
    ; CHECK-NEXT:  vpsrlq $63, %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 = zext <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

};
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:    vpsrlw $4, %ymm0, %ymm3   ; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3   ; CHECK-NEXT:    vpsllw $5, %ymm1, %ymm1   ; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0   ; CHECK-NEXT:    vpsllw $2, %ymm0, %ymm2   ; CHECK-NEXT:    vpsrlw $6, %ymm0, %ymm3   ; CHECK-NEXT:    vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3   ; CHECK-NEXT:    vpaddb %ymm1, %ymm1, %ymm1   ; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0   ; CHECK-NEXT:    vpsrlw $7, %ymm0, %ymm2   ; CHECK-NEXT:    vpaddb %ymm0, %ymm0, %ymm0   ; CHECK-NEXT:    vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3   ; CHECK-NEXT:    vpaddb %ymm1, %ymm1, %ymm1   ; CHECK-NEXT:    vpblendvb %ymm1, %ymm3, %ymm0, %ymm0   ; CHECK-NEXT:    retq
%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, i8 8>, %b
%shl = shl <16 x i8> %a, %b
%lshr = lshr <16 x i8> %a, %b8
%or = or <16 x i8> %shl, %lshr
ret <16 x i8> %or
}
%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-AVX512-LABEL: splatvar_rotate_v32i8:
; CHECK-AVX512: # %bb.0:
; CHECK-AVX512-NEXT: vpbroadcast %xmm1, %xmm1
; CHECK-AVX512-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
; CHECK-AVX512-NEXT: vpmovzbqb {{.*#+}} %xmm2 =
% xmm1[0],zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero,zero
; CHECK-AVX512-NEXT: vpsll %xmm2, %ymm0, %ymm3
; CHECK-AVX512-NEXT: vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-AVX512-NEXT: vpsllw %xmm2, %xmm4, %xmm2
; CHECK-AVX512-NEXT: vpbroadcast %xmm2, %ymm2
; CHECK-AVX512-NEXT: vpand %ymm2, %ymm3, %ymm2
; CHECK-AVX512-NEXT: vmovdqa {{.*#+}} xmm1 =
% xmm1[0],zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero,zero
; CHECK-AVX512-NEXT: vpsrlw %xmm1, %ymm0, %ymm5
; CHECK-AVX512-NEXT: vpand %ymm2, %ymm3, %ymm2
; CHECK-AVX512-NEXT: vpsrlw %xmm1, %xmm4, %xmm0
; CHECK-AVX512-NEXT: vpsrlw $8, %xmm0, %xmm0
; CHECK-AVX512-NEXT: vpbroadcast %xmm0, %ymm0
; CHECK-AVX512-NEXT: vpternlogq $236, %ymm5, %ymm2, %ymm0
; CHECK-AVX512-NEXT: retq
;
; CHECK-VBMI-LABEL: splatvar_rotate_v32i8:
; CHECK-VBMI: # %bb.0:
; CHECK-VBMI-NEXT: vpbroadcast %xmm1, %xmm1
; CHECK-VBMI-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
; CHECK-VBMI-NEXT: vpmovzbqb {{.*#+}} %xmm2 =
% xmm1[0],zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero,zero
; CHECK-VBMI-NEXT: vpsll %xmm2, %ymm0, %ymm3
; CHECK-VBMI-NEXT: vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-VBMI-NEXT: vpsllw %xmm2, %xmm4, %xmm2
; CHECK-VBMI-NEXT: vpbroadcast %xmm2, %ymm2
; CHECK-VBMI-NEXT: vpand %ymm2, %ymm3, %ymm2
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} %xmm3 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-VBMI-NEXT: vpsubb %xmm1, %xmm3, %xmm1
; CHECK-VBMI-NEXT: vpmovzbqb {{.*#+}} %ymm1 =
% xmm1[0],zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero,zero
; CHECK-VBMI-NEXT: vpsrlw %xmm1, %ymm0, %ymm3
; CHECK-VBMI-NEXT: vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-VBMI-NEXT: vpsllw %xmm2, %xmm4, %xmm2
; CHECK-VBMI-NEXT: vpbroadcast %xmm2, %ymm2
; CHECK-VBMI-NEXT: vpand %ymm2, %ymm3, %ymm2
; CHECK-VBMI-NEXT: vmovdqa {{.*#+}} %ymm3 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-VBMI-NEXT: vpsubb %xmm1, %ymm3, %xmm1
; CHECK-VBMI-NEXT: vpmovzbqb {{.*#+}} %ymm1 =
% xmm1[0],zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero,zero
; CHECK-VBMI-NEXT: vpsrlw %xmm1, %ymm0, %ymm3
; CHECK-VBMI-NEXT: vpsrlw %xmm1, %xmm4, %xmm0
; CHECK-VBMI-NEXT: vpmovdqa {{.*#+}} %ymm0 =
[1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1]
; CHECK-VBMI-NEXT:  vpternlogq $236, %ymm3, %ymm2, %ymm0
; CHECK-VBMI-NEXT:  retq
%splat = shufflevector <32 x i8> %b, <32 x i8> undef, <32 x i32> zeronormalized
%splat8 = 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>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

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:  vpsllw $4, %ymm0, %ymm1
; CHECK-AVX512-NEXT:  vpaddd {{.*}}(%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:  vblendvb %ymm2, %ymm1, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpsllw $2, %ymm1, %ymm3
; CHECK-AVX512-NEXT:  vpaddd {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpadddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT:  vblendvb %ymm2, %ymm3, %ymm1, %ymm1
; CHECK-AVX512-NEXT:  vpsllw $8, %ymm0, %ymm3
; CHECK-AVX512-NEXT:  vpsllw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpsrlw %8, %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} ymm3 = 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], ymm2[26], ymm0[27], ymm2[27], ymm0[28], ymm2[28], ymm0[29], ymm2[29], ymm0[30], ymm2[30], ymm0[31], ymm2[31]
; CHECK-AVX512-NEXT:  vpsllw {{.*}}(%rip), %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpsrlw %8, %ymm3, %ymm3
; CHECK-AVX512-NEXT:  vpunpcklwb {{.*#+}} ymm00 = 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:  vpsllw {{.*}}(%rip), %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpsrlw %8, %ymm00, %ymm00
; CHECK-AVX512-NEXT:  vpacubs %ymm3, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpor %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:  retq
; CHECK-VBMI-NEXT:  vpsllw $4, %ymm0, %ymm1
define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: splatconstant_rotate_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:    retq
    %shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23>
    %lshr = lshr <32 x i8> %a, <i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31, i8 32, i8 33, i8 34, i8 35, i8 36, i8 37, i8 38, i8 39, i8 40, i8 41, i8 42, i8 43, i8 44, i8 45, i8 46, i8 47, i8 48, i8 49, i8 50, i8 51, i8 52, i8 53, i8 54, i8 55, i8 56, i8 57, i8 58, i8 59, i8 60, i8 61, i8 62, i8 63>
    %or = or <32 x i8> %shl, %lshr
    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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; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --check-attributes
; RUN: opt -attributor -enable-new-pm=0 -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM,IS__TUNIT____,IS________OPM,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________NP,IS__TUNIT_NPM
; RUN: opt -attributor-cgsc -enable-new-pm=0 -attributor-manifest-internal -attributor-annotate-decl-cs -S %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM,IS__CGSCC____,IS________OPM,IS__CGSCC_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgsc -attributor-manifest-internal -attributor-annotate-decl-cs -S %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_OPM,IS__CGSCC____,IS________NP,IS__CGSCC_NPM

; Test that we only promote arguments when the caller/callee have compatible function attributes.

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>* %arg1) #0 {
  ...
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  ; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint norecurse nosync nounwind uwtable willreturn
  ; IS__TUNIT_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture norefree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* [[TMP0:%.*]] [[ATTR0:#.*]]) [[ATTR0:.#.*]] {
  ; 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> [[ARG1_PRIV]], <8 x i64>* [[ARG]], align 64
  ; IS__TUNIT_OPM-NEXT: [[ARG2:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 64
  ; IS__TUNIT_OPM-NEXT: [[ARG3:%.*]] = store <8 x i64> [[ARG2]], <8 x i64>* [[ARG]], align 64
  ; IS__TUNIT_OPM-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 %callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg)

%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
define internal fastcc void @callee_avx512_legal512_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_legal512_prefer256_call_avx512_legal512_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
}
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_OPM-NEXT: [^
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_OPM-NEXT: [[ARG:%.*]] [[ATTR1:%.#*]]
; IS__CGSCC_OPM-NEXT: allococa <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-NEXT: allococa <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-NEXT: allococa <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS__CGSCC_OPM-NEXT: ret void

; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-LABEL: define {{\[^@\]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

; IS________OPM-NEXT: allococa <8 x i64>, align 32
; IS________OPM-NEXT: store <8 x i64> [[ARG]], align 32
; IS________OPM-NEXT: ret void

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define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256)

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg)

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [TMP2]), <8 x i64>* [TMP0]) [[ATTR7]]
; 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree noundef writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR0]]

; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [TMP3]), i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [TMP2]), <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; 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

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>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [TMP2]), <8 x i64>* [TMP0]) [[ATTR7]]
; 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

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
define void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {

; 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 {

; IS_________OPM: Function Attrs: argmemonly inlinehint nofree norcursion nosync nounwind uwtable willreturn
; IS_________OPM-LABEL: define
{ [{^[@]+}] }@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS_________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writtenonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR0]]

; IS_________OPM-NEXT: bb:

bb:
%tmp = load <8 x i64>, <8 x i64>* %tmp
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: Function Attrs: argmemonly inlinehint nofree norcursion nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define
{ [{^[@]+}] }@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]])
[[ATTR1]]

; IS__TUNIT_OPM-NEXT: bb:

bb: %tmp = load <8 x i64>, <8 x i64>* %tmp
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
}; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [TMP3], i8 noundef 0, i64 noundef 32, i1 noundef false) [ATTR6]
; IS__CGSCC_NPM-NEXT: [TMP0:%.*] = load <8 x i64>, <8 x i64>* [TMP], align 64
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture noundef nonnull writeonly align 64 dereferenceable(64) [TMP2], <8 x i64>* [TMP]) [ATTR7]
; IS__CGSCC_NPM-NEXT: [TMP4:%.*] = load <8 x i64>, <8 x i64>* [ARG], align 2
; IS__CGSCC_NPM-NEXT: ret void

; IS__CGSCC_NPM-NEXT: 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 {
;
; IS_____OPM: Function Attrs: argmemonly inlinehint nocapture norecurse nosync nounwind uwtachable willreturn
; IS_____OPM-LABEL: define
{{[^@]+}} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS_____OPM-SAME: (<8 x i64>* nocapture noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]]) [[ATTR1]] {
; IS_____OPM-NEXT: bb:
; IS_____OPM-NEXT: [TMP:%.*] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS_____OPM-NEXT: store <8 x i64> [TMP], <8 x i64>* [[ARG]], align 64
; IS_____OPM-NEXT: ret void
;
; IS_____NPM: Function Attrs: argmemonly inlinehint nocapture norecurse nosync nounwind uwtachable willreturn
; IS_____NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS_____NPM-SAME: (<8 x i64>* noalias nocapture noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]]) [[ATTR1]] {
define {{[@]+}} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
  (%8 x i64)* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
  ([ARG: %*]) ([ATTR2: #*]) {
    bb:
    %tmp = alloca %8 x i64, align 32
    %tmp2 = alloc %8 x i64, align 32
    %tmp3 = bitcast %8 x i64* to i8 *
    call void @llvm.memset.p0i8.i64(i8* %tmp3, i8 noundef 0, i64 noundef 32, i1 noundef false) ([ATTR6])
    call fastcc void
      @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(%8 x i64* nocapture nofree noundef
      writeonly align 64 dereferenceable(64) [[TMP2]], %8 x i64* nocapture nofree noundef
      readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
    %tmp4 = load %8 x i64, %8 x i64* %tmp2, align 64
    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_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #2 {

; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________OPM-LABEL: define
{ [([^@]+)] } @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
;
; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nullptr writeonly 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nfree noundef noreturn readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR2:#.*]]
{
; IS________OPM-NEXT: bb:
; IS________OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________OPM-NEXT: ret void

; IS________NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS________NPM-LABEL: define
{ [([^@]+)] } @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
;
; IS________NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* noalias nocapture nfree noundef noreturn readonly align 64 dereferenceable(64) [[ARG1:%.*]])
[[ATTR2:#.*]]
{
; IS________NPM-NEXT: bb:
; IS________NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS________NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________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_prefer256(<8 x i64>* %arg) #1 {

; IS__TUNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_OPM-LABEL: define { [([^@]+)] } @avx512_legal512_prefer256_call_avx512_legal512_prefer256
;
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture nofree noundef writeonly 64 dereferenceable(64) [[ARG:%.*]]) [[ATTR1]]
{
; 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 nfree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nfree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
;
; 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define ([[^*]+]) @avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR1]] {
; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define ([[^*]+]) @avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR1]] {
; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define ([[^*]+]) @avx512_legal512_prefer256_call_avx512_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree writeonly align 2 dereferenceable(64) [[ARG:%.*]]) [[ATTR1]] {
; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT: call fastcc void
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
    ; IS__UNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    ; IS__UNIT_OPM-LABEL: define ([[^@]+]) @avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR4:#.*]]
    ; IS__UNIT_OPM-NEXT: bb:
    ; IS__UNIT_OPM-NEXT: [[TMP:.%]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP2:.%]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP3:.%]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__UNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
    ; IS__UNIT_OPM-NEXT: call fastcc void
    @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
    ; IS__UNIT_OPM-NEXT: [[TMP4:.%]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__UNIT_OPM-NEXT: ret void
    ; IS__UNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    ; IS__UNIT_NPM-LABEL: define ([[^@]+]) @avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR4:#.*]]
    ; 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: [[TMP0:.%]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
    ; IS__UNIT_NPM-NEXT: call fastcc void
    @callee_avx2_legal256_prefer256_call_avx2Legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
    ; 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__UNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    ; IS__UNIT_OPM-LABEL: define ([[^@]+]) @avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR4:#.*]]
    ; IS__UNIT_OPM-NEXT: bb:
    ; IS__UNIT_OPM-NEXT: [[TMP:.%]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP2:.%]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP3:.%]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__UNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
    ; IS__UNIT_OPM-NEXT: call fastcc void
    @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
    ; IS__UNIT_OPM-NEXT: [[TMP4:.%]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__UNIT_OPM-NEXT: ret void
    ; IS__UNIT_NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    ; IS__UNIT_NPM-LABEL: define ([[^@]+]) @avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture nofree writeonly [[ARG:%.*]]) [[ATTR4:#.*]]
    ; 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: [[TMP0:.%]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
    ; IS__UNIT_NPM-NEXT: call fastcc void
    @callee_avx2_legal256_prefer256_call_avx2Legal512_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
    ; 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__UNIT_OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    ; IS__UNIT_OPM-LABEL: define ([[^@]+]) @avx2_legal256_prefer256_call_avx2_legal512_prefer256
    ; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture nofree writeonly align 2 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
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define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {

   \[
   \text{bb: \%tmp = load <8 x i64>, <8 x i64>* \[%arg1\], align 64} \\
   \text{store <8 x i64> \%tmp, <8 x i64>* \%arg} \\
   \text{ret void} \]
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {

   \[
   \text{bb: \%tmp = load <8 x i64>, <8 x i64>* \[%arg1\], align 64} \\
   \text{store <8 x i64> \%tmp, <8 x i64>* \%arg} \\
   \text{ret void} \]
}


align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__UNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__UNIT_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]] [[ATTR7]]
; 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR3:#.*]] {
; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull nonnull readonly align 64 dereferenceable(64) [[TMP]] [[ATTR7]]
; 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 2 dereferenceable(64)
[[ARG:%.*]]) [[ATTR3:#.*]] {
; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]] [[ATTR7]]
; 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
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: argmemoonly 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 = { argmemoonly nounwind }

; RUN: llc -march=hexagon -hexagon-hvx-widen=32 < %s | FileCheck %s

; Truncating a type-to-be-widenened to a legal type (v8i8).
; Check that this compiles successfully.
; CHECK-LABEL: f0:
; CHECK: dealloc_return

target triple = "hexagon"

define dllexport void @f0(i8* %a0) local_unnamed_addr #0 {
  %v0 = load i8, i8* undef, align 1
  %v1 = zext i8 %v0 to i16
  %v2 = add i16 0, %v1
  %v3 = icmp sgt i16 %v2, 1
  %v4 = select i1 %v3, i16 %v2, i16 1
  %v5 = udiv i16 -32768, %v4
  %v6 = zext i16 %v5 to i32
  %v7 = insertelement <8 x i32> undef, i32 %v6, i32 0
  %v8 = shufflevector <8 x i32> %v7, <8 x i32> undef, <8 x i32> zeroinitializer
  %v9 = load <8 x i16>, <8 x i16>* undef, align 2
  %v10 = sext <8 x i16> %v9 to <8 x i32>
  %v11 = mul nsw <8 x i32> %v8, %v10

%v12 = add nsw <8 x i32> %v11, <i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384>
%v13 = lshr <8 x i32> %v12, <i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15>
%v14 = trunc <8 x i32> %v13 to <8 x i8>
%v15 = getelementptr inbounds i8, i8* %a0, i32 undef
%v16 = bitcast i8* %v15 to <8 x i8>*
store <8 x i8> %v14, <8 x i8>* %v16, align 1
ret void
}

attributes #0 = { "target-features"="+hvx,+hvx-length128b" }
; RUN: llc -march=hexagon < %s
; REQUIREES: 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], [ undefined, %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
]
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; 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-preferences=VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-preferences=VEC256,AVX512VL256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-preferences=AVX512VL512
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -
mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=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=SKX512

define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: 'zext256'
    ; VEC256-NEXT: Cost Model: Found an estimated cost of 3 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 3 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
    ; AVX512VL512-LABEL: 'zext256'
    ; 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
    ; SKX512-LABEL: 'zext256'
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
    ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
    ; SKX512-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 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>
; 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>
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
;
; SKX512-LABEL: 'zext512'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
; SKX512-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 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 <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 3 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
;
; AVX512VL512-LABEL: 'sext256'
; 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>
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
}
; 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 i64>
; 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 i64>
; 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 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
    ; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 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
; 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_vXi1() "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 1 for instruction: %V16i32 = zext <16 x i1> undef to <16 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 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i64 = zext <16 x i1> undef to <16 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i64 = zext <32 x i1> undef to <32 x i64>
; 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 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i64 = zext <16 x i1> undef to <16 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i64 = zext <32 x i1> undef to <32 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 to <8 x i32>
; AVX512VL256-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: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i64 = zext <16 x i1> undef to <16 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i64 = zext <32 x i1> undef to <32 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

%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: %V16i32 = sext <16 x i1> undef to <16 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>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x
i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <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: 'sext256_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 undef to i64
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> undef to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 undef to i32
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 10 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 20 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; 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 3 for instruction: %V64i64 = sext <64 x i1> undef to <64 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %I32 = sext i1 undef to i32
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i32 = sext <32 x i1> undef to <32 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i32 = sext <64 x i1> undef to <64 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 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 7 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V64i16 = sext <64 x i1> undef to <64 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 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: %I32 = sext i1 undef to i32
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
  ; 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 3 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
  ; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
  ;
: SKX512-LABEL: 'sext256_vXi1'
: 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: %V16i64 = sext <16 x i1> undef to <16 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>

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%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: \%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 9 for instruction: \%V8i64 = trunc <8 x i64> undef to <8 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: \%V16i64 = trunc <16 x i64> undef to <16 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: \%V32i64 = trunc <32 x i64> undef to <32 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: \%V64i64 = trunc <64 x i64> undef to <64 x i1>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: \%V2i32 = trunc <2 x i32> undef to <2 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 16 for instruction: %V16i16 = trunc <16 x i16> undef to <16 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 8 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 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 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>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 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 11 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 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 i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i8>
; 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 2 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i32 = trunc <32 x i32> undef to <32 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 2 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 5 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 i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i8>
; 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>
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 * Rob Earhart
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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1.1915 libxext 1.3.3-1

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1.1916 azure-eventhubs 2.3.2

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 */
/**
 * Send an '@link EventData' with a partitionKey' to EventHub. All '@link EventData)'s with a partitionKey are guaranteed to land on the same partition.
 * This send pattern emphasize data correlation over general availability and latency.
 * <p>
There are 3 ways to send to EventHubs, each exposed as a method (along with its sendBatch overload):

* <pre>
  * i.  {@link #send(EventData)} or {@link #send(Iterable)}
  * ii.  {@link #send(EventData, String)} or {@link #send(Iterable, String)}
  * iii. {@link PartitionSender#send(EventData)} or {@link PartitionSender#send(Iterable)}
  * </pre>
* <p>
  * Use this type of Send, if:
  * <pre>
  * i.  There is a need for correlation of events based on Sender instance; The sender can generate a UniqueId and set it as partitionKey - which on the received Message can be used for correlation
  * ii. The client wants to take control of distribution of data across partitions.
  * </pre>
* <p>
  * Multiple PartitionKey's could be mapped to one Partition. EventHubs service uses a proprietary Hash algorithm to map the PartitionKey to a PartitionId.
  * Using this type of Send (Sending using a specific partitionKey), could sometimes result in partitions which are not evenly distributed.
  *
  * @param eventData the {@link EventData} to be sent.
  * @param partitionKey the partitionKey will be hash'ed to determine the partitionId to send the eventData to. On the Received message this can be accessed at @link EventData.SystemProperties#getPartitionKey()
  * @return a CompletableFuture that can be completed when the send operations is done..
  * @see #send(EventData)
  * @see PartitionSender#send(EventData)
  */

Found in path(s):
* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/EventHubClient.java

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* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/impl/Operation.java
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* /opt/cola/permits/1243282643_1639631859.27/0/azure-eventhubs-2-3-2-sources-jar/com/microsoft/azure/eventhubs/impl/AmqpErrorCode.java
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1.1917 jakarta-annotation-api 1.3.5

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1.1918 e2fsprogs 1.45.6-r0

1.1918.1 Available under license :

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

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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.

# BSIDLIB_VERSION = 1.0
# BSIDLIB_IMAGE = libce
# BSIDLIB_MYDIR = et
# BSIDLIB_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_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)

@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB) \
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::

$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

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

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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--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@
*/
 /* 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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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>, from sources obtained from a mirror of:
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Gadi Oxman, August 1995

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_theme/scipy/static/copybutton.js

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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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

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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
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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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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
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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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 */

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import java.io.Serializable;

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

public abstract boolean implies(Permission permission);
}

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encoding: US-ASCII
tab size: 8 (not used)
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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of
itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by char32At(). One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

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

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>. For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

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

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

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@author Alan Liu
@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.
Note: This class does not support attributes and is not intended for general use. Most clients will need to implement \{@link Replaceable\} in their text representation class.

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@see Replaceable
@author Alan Liu
@stable ICU 2.0

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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
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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
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/kproblog.c

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1.1927 go-autorest-date 0.3.0

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1.1928 nokogiri 1.12.5
1.1928.1 Available under license :

# Vendored Dependency Licenses

Nokogiri ships with some third party dependencies, which are listed here along with their licenses.

Note that this document is broken into multiple sections, each of which describes the dependencies of a different "platform release" of Nokogiri.

<!-- regenerate TOC with `markdown-toc -i` -->

<!-- toc -->

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  * [Native Linux platform releases ("x86_64-linux" and "arm64-linux")](#native-linux-%e2%93%a1-platform-
releases-x86_64-linux-and-arm64-linux)
* [Native Darwin (macOS) platform releases ("x86_64-darwin" and "arm64-darwin")](#native-darwin-macos%E2%93%A1-platform-releases-x86_64-darwin-and-arm64-darwin)
* [Native Windows platform releases ("x86-mingw32" and "x64-mingw32")](#native-windows%E2%93%A1-platform-releases-x86-mingw32-and-x64-mingw32)
* [Java (JRuby) platform release ("java")](#java%E2%93%A1-jruby-platform-release-java)
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  * [nekohtml](#nekohtml)
  * [xalan](#xalan)
  * [xerces](#xerces)
  * [xml-apis](#xml-apis)

<!-- tocstop -->

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You can double-check the dependencies in your gem file by examining the output of `nokogiri -v` after installation, which will emit the complete set of libraries in use (for versions `>= 1.11.0.rc4`).

In particular, I'm sure somebody's lawyer, somewhere, is going to freak out that the LGPL appears in this file; and so I'd like to take special note that the dependency covered by LGPL, `libiconv`, is only being redistributed in the native Windows and native Darwin platform releases. It's not present in default, Java, or native Linux releases.

## Platform Releases

### Default platform release ("ruby")

The default platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [libgumbo and nokogumbo](#libgumbo-and-nokogumbo)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "ruby" for its "platform" attribute.
### Native Linux platform releases ("x86_64-linux" and "arm64-linux")

The native Linux platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [libgumbo and nokogumbo](#libgumbo-and-nokogumbo)
- [zlib](#zlib)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86_64-linux" or "x86-linux" for its "platform.cpu" attribute.

### Native Darwin (macOS) platform releases ("x86_64-darwin" and "arm64-darwin")

The native Darwin platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [libgumbo and nokogumbo](#libgumbo-and-nokogumbo)
- [zlib](#zlib)
- [libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x86_64-darwin" or "arm64-darwin" for its "platform.cpu" attribute. Darwin is also known more familiarly as "OSX" or "macOS" and is the operating system for many Apple computers.

### Native Windows platform releases ("x86-mingw32" and "x64-mingw32")

The native Windows platform release distributes the following dependencies in source form:

- [libxml2](#libxml2)
- [libxslt](#libxslt)
- [libgumbo and nokogumbo](#libgumbo-and-nokogumbo)
- [zlib](#zlib)
- [libiconv](#libiconv)

This distribution can be identified by inspecting the included Gem::Specification, which will have a value similar to "x64-mingw32" or "x86-mingw32" for its "platform.cpu" attribute.

### Java (JRuby) platform release ("java")

The Java platform release distributes the following dependencies as compiled jar files:

- [isorelax](#isorelax)
- [jing](#jing)
- [nekodtd](#nekodtd)
- [nekohtml](#nekohtml)
- [xalan](#xalan)
- [xerces](#xerces)
- [xml-apis](#xml-apis)

This distribution can be identified by inspecting the included Gem::Specification, which will have the value "java" for its "platform.os" attribute.

## Appendix: Dependencies' License Texts

This section contains a subsection for each potentially-distributed dependency, which includes the name of the license and the license text.

Please see previous sections to understand which of these potential dependencies is actually distributed in the gem file you're downloading and using.

### libgumbo and nokogumbo

Apache 2.0

https://github.com/rubys/nokogumbo/blob/f6a7412/LICENSE.txt

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analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fi/FinnishMinimalStemmer.java
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analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianMinimalStemmer.java
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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html
org.ow2.asm:asm-commons
org.ow2.asm:asm

-----
Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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

-----
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

-----
Assorted

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1.1945 fluent-plugin-multi-format-parser 0.1.1

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

gem.license = 'Apache License (2.0)'

Found in path(s):
* /opt/cola/permits/1161784440_1620748956.53/0/repeatedly-fluent-plugin-multi-format-parser-v0-1-1-0-
ga5079d2-tar-gz/repeatedly-fluent-plugin-multi-format-parser-a3dadf1/fluent-plugin-multi-format-parser.gemspec
No license file was found, but licenses were detected in source scan.

# Multi format parser plugin for Fluentd

Parse format mixed logs.

## Installation

Use RubyGems:

```
fluent-gem install fluent-plugin-multi-format-parser
```

## Configuration

This plugin is a parser plugin. After installed, you can use `multi_format` in `format` supported plugins.
Use multiple ` <pattern>` to specify multiple format.

```
<source>
  @type udp
  tag logs.multi

  format multi_format
  <pattern>
    format apache
  </pattern>
  <pattern>
    format json
    time_key timestamp
  </pattern>
  <pattern>
    format none
</source>
```
`multi_format` tries pattern matching from top to bottom and returns parsed result when matched.

Available format patterns and parameters are depends on Fluentd parsers. See [in_tail format document](http://docs.fluentd.org/articles/in_tail) for more details.

### For v0.14

This plugin handles `pattern` section manually, so v0.14's automatic parameter conversion doesn't work well. If you want to use this plugin with v0.14, you need to use v0.14 parser syntax like below

```xml
<filter app.**>
  @type parser
  key_name message
  <parse> # Use <parse> section for parser parameters
    @type multi_format
    <pattern>
      format json
    </pattern>
    <pattern>
      format none
    </pattern>
  </parse>
</filter>
```

### NOTE

This plugin doesn't work with `multiline` parsers because parser itself doesn't store previous lines.

## Copyright

```xml
<table>
<tr>
  <td>Author</td><td>Masahiro Nakagawa <repeatedly@gmail.com></td>
</tr>
<tr>
  <td>Copyright</td><td>Copyright (c) 2014- Masahiro Nakagawa</td>
</tr>
<tr>
  <td>License</td><td>MIT License</td>
</tr>
</table>
```

Found in path(s):
* /opt/cola/permits/1161784440_1620748956.53/0/repeatedly-fluent-plugin-multi-format-parser-v0-1-1-0-ga5079d2.tar-gz/repeatedly-fluent-plugin-multi-format-parser-a3dadf1/README.md
1.1946 open3 0.1.0

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1.1947 ydiff 1.2

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1.1948 jersey-client 2.28

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File::FcntlLock

File::FcntlLock is a module to do file locking in an object oriented fashion using the fcntl(2) system call. This allows locks on parts of a file as well as on the whole file and overcomes some known problems with flock(2), on which Perl's flock() function is based per default.

Since version 0.15 there are three slightly different ways this can be done with using this package. Per default a method is used where a shared library build creation of the package is called from the Perl code to invoke the fcntl(2) system function. This method can also be used by employing the File::FcntlLock::XS module (which basically an alias for File::FcntlLock). Two further methods instead use calls of the Perl fcntl() function. In both cases at some time a C program must be run to determine the binary layout of the C flock struct used by fcntl() for locking. For the one package, File::FcntlLock::Pure, this is done while making the package. For the other, File::FcntlLock::Inline, this happens each time the package is loaded (e.g. with the 'use' function). Of course, for this to work a C compiler must be installed on the system!

Unfortunately, there seem to be a few 32-bit systems where the off_t type, used in the flock struct, is a 64-bit integer but which use a Perl version that hasn't 64-bit support enabled. On these systems the 'q' format for Perl's pack() and unpack() function isn't available and thus a "pure Perl" approach is thus not possible. On such systems the File::FcntlLock::Pure and File::FcntlLock::Inline modules won't get installed.
PORTABILITY

To use the module the system must support the fcntl() system call which probably will restrict its use to POSIX compliant systems.

INSTALLATION

To install this module type the following:

perl Makefile.PL
make
make test
make install

DEPENDENCIES

The module requires the following other modules:

POSIX, Errno, Carp, Exporter, DynaLoader

To install the module(s) a C compiler must be available and the system must support the use of shared libraries (or DLLs). For File::FcntlFlock::Inline the C compiler must also be available when the module is used. The installation of the File::FcntlLock::Pure and File::FcntlLock::Inline modules require that the Perl pack() and unpack() function support the 'q' format if the off_t type on the system is 64-bit wide.

ACKNOWLEDGMENTS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd (which seems to have only very rudimentary support for locking with fcntl(2), at least at that time). Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to a XS-only approach which hopefully will make the module more useful under certain circumstances.

AUTHOR

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=head1 NAME

File::FcntlLock - File locking with L<fcntl(2)>

This text also documents the following sub-packages:

=over 2

=item File::FcntlLock::XS

=item File::FcntlLock::Pure

=item File::FcntlLock::Inline

=back

=head1 SYNOPSIS

use File::FcntlLock;

my $fs = new File::FcntlLock;
$fs->l_type( F_RDLCK );
$fs->l_whence( SEEK_CUR );
$fs->l_start( 100 );
$fs->l_len( 123 );
open my $fh, '<', 'file_name' or die "Can't open file: $!
"
$fs->lock( $fh, F_SETLK )
or print "Locking failed: " . $fs->error . "\n"
$fs->l_type( F_UNLCK )
$fs->lock( $fh, F_SETLK )
or print "Unlocking failed: " . $fs->error . "\n"

=head1 DESCRIPTION

File locking in Perl is usually done using the C<flock> function. Unfortunately, this only allows locks on whole files and is often implemented in terms of the L<flock(2)> system function which has some shortcomings (especially concerning locks on remotely mounted file systems) and slightly different behaviour than L<fcntl(2)>.

Using this module file locking via L<fcntl(2)> can be done (obviously, this restricts the use of the module to systems that have a L<fcntl(2)> system call). Before a file (or parts of a file) can be locked, an object simulating a flock structure, containing information in a binary format to be passed to L<fcntl(2)> for locking requests, must be created and its properties set. Afterwards, by calling the L<lock()> method a lock can be set and removed or it can be determined if and which process currently holds the lock.

File::FcntlLock (or its alias File::FcntlLock::XS) uses a shared library, build during installation, to call the L<fcntl(2)> system function directly. If this is unsuitable there are two alternatives, File::FcntlLock::Pure and File::FcntlLock::Inline. Both call the Perl C<fcntl> function instead and use Perl code to assemble and disassemble the structure. For this at some time the (system-dependent) binary layout of the flock structure must have been determined via a program written in C. The difference between File::FcntlLock::Pure and File::FcntlLock::Inline is that for the former this happened when the package is installed while for the latter it is done each time the package is loaded (e.g., with C<use>). Thus, for File::FcntlLock::Inline to work a C compiler must be available. There are some minor differences in the functionality and the behaviour on passing the method for locking invalid arguments to be described below.

=head2 Creating objects

=over 4

=item C<new()>

To create a new object, representing a flock structure, call L<new()>:
$fs = new File::FcntlLock;

The object has a number of properties, reflecting the members of the flock structure to be passed to L<fcntl(2)> (see below). Per default on object creation the L<l_type> property is set to C<F_RDLCK>, L<l_whence> to C<SEEK_SET>, and both L<l_start> and L<l_len> to 0, i.e., the settings for a read lock on the whole file.

These defaults can be overruled by passing the L<new()> method a set of key-value pairs to initialize the objects properties, e.g. use

$fs = new File::FcntlLock( l_type   => F_WRLCK,
                         l_whence => SEEK_SET,
                         l_start  => 0,
                         l_len    => 100 );

if you intend to obtain a write lock for the first 100 bytes of a file.

=head2 Object properties

Once the object simulating the flock structure has been created the following methods allow to query and, in most cases, to also modify its properties.

=item C<l_type()>

If called without an argument the method returns the current setting of the lock type, otherwise the lock type is set to the argument's value which must be either C<F_RDLCK>, C<F_WRLCK> or C<F_UNLCK> (for read lock, write lock or unlock).

=item C<l_whence()>

This method sets, when called with an argument, the L<l_whence> property of the flock object, determining if the L<l_start> value is relative to the start of the file, to the current position in the file or to the end of the file. These values are C<SEEK_SET>, C<SEEK_CUR> and C<SEEK_END> (also see the man page for L<seek(2)>). If called with no argument the current value of the property is returned.

=item C<l_start()>

=over 4

=item C<l_len()>

If called without an argument the method returns the current setting of the lock length, otherwise the lock length is set to the argument's value which must be a non-negative integer.

=back
Queries or sets the start position (offset) of the lock in the file according to the mode selected by the `<l_whence>` member. See also the man page for `<lseek(2)>`.

=item `<l_len()>`

Queries or sets the length of the region (in bytes) in the file to be locked. A value of 0 is interpreted to mean a lock, starting at `<l_start>`, to the end of the file. E.g., a lock obtained with `<l_whence>` set to `<SEEK_SET>` and both `<l_start>` and `<l_len>` set to 0 locks the complete file.

According to SUSv3 support for negative values for `<l_len>` are permitted, resulting in a lock ranging from `<l_start>+<l_len>` up to and including `<l_start>-1>`. But not all systems support negative values for `<l_len>` and will return an error when you try to obtain such a lock, so please read the `<fcntl(2)>` man page of the system carefully for details.

=item `<l_pid()>`

If a call of the `<lock()>` method with `<F_GETLK>` indicates that another process is holding the lock (in which case the `<l_type>` property will be either `<F_WRLCK>` or `<F_RDLCK>`) a call of the `<l_pid()>` method returns the PID of the process holding the lock. This method does not accept any arguments.

=head2 Locking

After having set up the object representing a flock structure one can then try to obtain a lock, release it or determine the current holder of the lock by invoking the `<lock()>` method:

=over 4

=item `<lock()>`

This method expects two arguments. The first one is a file handle (or typeglob). File::FcntlLock, and thus File::FcntlLock::XS (but neither File::FcntlLock::Pure nor File::FcntlLock::Inline), also accepts a "raw" integer file descriptor. The second argument is a flag indicating the action to be taken. So call it as in

```perl
$fs->lock( $fh, F_SETLK );
```
There are three values that can be used as the second argument:

=over 4

=item C\<F_SETLK\>

With C\<F_SETLK\> the L\<lock()\> method tries to obtain a lock (when L\<l_type\> is set to either C\<F_WRLCK\> or C\<F_RDLCK\>) or releases it (if L\<l_type\> is set to C\<F_UNLCK\>). If an attempt is made to obtain a lock but a lock is already being held by some other process the method returns C\<undef\> and C\<errno\> is set to C\<EACCESS\> or C\<EAGAIN\> (please see the the man page for L\<fcntl(2)\> for more details).

=item C\<F_SETLKW\>

is similar to C\<F_SETLK\>, but instead of returning an error if the lock can't be obtained immediately it puts the calling process to sleep, i.e., it blocks, until the lock is obtained at some later time. If a signal is received while waiting for the lock the method returns C\<undef\> and C\<errno\> is set to C\<EINTR\>.

=item C\<F_GETLK\>

With C\<F_GETLK\> the L\<lock()\> method determines if and which process currently is holding the lock. If there's no other lock the L\<l_type\> property will be set to C\<F_UNLCK\>. Otherwise the flock structure object is set to the values that would prevent us from obtaining a lock. There may be several processes that keep us from getting a lock, including some that themselves are blocked waiting to obtain a lock. C\<F_GETLK\> will only make details of one of these processes visible, and one has no control over which process this is.

=back

On success the L\<lock()\> method returns the string "0 but true", i.e., a value that is true in boolean but 0 in numeric context. If the method fails (as indicated by an C\<undef\> return value) you can either immediately evaluate the error number (using $!, $ERRNO or $OS_ERROR) or check for it via the methods discussed below at some later time.

=back

=head2 Error handling

There are minor differences between File::FcntlLock on the one hand
and File::FcntlLock::Pure and File::FcntlLock::Inline on the other, due to the first calling the system function L<fcntl(2)> directly while the latter two invoke the Perl C<fcntl> function. Perl's C<fcntl> function already returns a Perl error on some types of invalid arguments. In contrast File::FcntlLock passes them on to the L<fcntl(2)> system call and then returns the systems response to the caller.

There are three methods for obtaining information about the reason the a call of the L<lock()> method failed:

=over 4

=item C<lock_errno()>

Returns the C<errno> error number from the latest call of L<lock()>.
If the last call did not result in an error C<undef> is returned.

=item C<error()>

Returns a short description of the error that happened during the latest call of L<lock()>.
Please take the messages with a grain of salt, they represent what SUSv3 (IEEE 1003.1-2001) and the Linux, TRUE64, OpenBSD3 and Solaris8 man pages tell what the error numbers mean. There could be differences (and additional error numbers) on other systems.
If there was no error the method returns C<undef>.

=item C<system_error()>

While the L<error()> method tries to return a string with some direct relevance to the locking operation (i.e., "File or segment already locked by other process(es)" instead of "Permission denied") this method returns the "normal" system error message associated with C<errno>. The method returns C<undef> if there was no error.

=back

=head2 EXPORT

The package exports the following constants:

=over 2

=item F_GETLK F_SETLK F_SETLKW

=item F_RDLCK F_WRLCK F_UNLCK
=item SEEK_SET SEEK_CUR SEEK_END
=back

=head1 INCOMPATIBILITIES

Obviously, this module requires that there's a L<fcntl(2)> system call. Note also that under certain circumstances the File::FcntlLock::Pure and File::FcntlLock::Inline modules may not have been installed. This happens on 32-bit systems that use 64-bit integers in their flock structure but where the installed Perl version doesn't support the 'q' format for its C<pack> and C<unpack> functions.

=head1 CREDITS

Thanks to Mark Jason Dominus and Benjamin Goldberg for helpful discussions, code examples and encouragement. Glenn Herteg pointed out several problems and also helped improve the documentation. Julian Moreno Patino helped correcting the documentation and pointed out problems arising on GNU Hurd which seems to have only very rudimentary support for locking with L<fcntl(2)>. Niko Tyni and Guillem Jover encouraged and helped with implementing alternatives to an XS-only approach which hopefully will make the module more useful under certain circumstances.

=head1 AUTHOR

Jens Thoms Toerring <jt@toerring.de>

=head1 SEE ALSO

L<perl(1)>, L<fcntl(2)>, L<lseek(2)>.

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1.1961 kubernetes v1.21.0

1.1961.1 Available under license:

```go
package types

import "time"

// FeatureType store features types
type FeatureType string

const (
    // HA means High Availability
    HA = FeatureType("HA")
    // DEV means developer licence
    DEV = FeatureType("DEV")
    // TRIAL means trial licence
    TRIAL = FeatureType("TRIAL")
)

// Licence holds the information to be encoded in the licence key. It needs to be synced across
// the django server running on portal-API as well as the corresponding decoding package on the
// storageOS control plane

type Licence struct {
    ArrayUUID    string `json:"arrayUUID,omitempty"
    ClusterID    string `json:"clusterID,omitempty"
    CustomerID   string `json:"customerID"
    CustomerName string `json:"customerName"
    Storage      int    `json:"storage"
    ValidUntil   time.Time `json:"validUntil"
}
```
LicenceType string `json:"licenceType"
Features map[FeatureType]bool `json:"features"
Unregistered bool `json:"unregistered"
}

// LicenceKeyContainer - stores a licence key
type LicenceKeyContainer struct {
    Key string `json:"key"
}

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package spec

// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}

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package migration

import "fmt"

// Notice is a migration warning
type Notice struct {
    Plugin        string
    Option        string
    Severity      string // 'deprecated', 'removed', or 'unsupported'
    ReplacedBy    string
    Additional    string
    Version       string
}
func (n *Notice) ToString() string {
    s := ""
    if n.Option == "" {
        s += fmt.Sprintf(`Plugin "%v" `, n.Plugin)
    } else {
        s += fmt.Sprintf(`Option "%v" in plugin "%v" `, n.Option, n.Plugin)
    }
    if n.Severity == unsupported {
        s += "is unsupported by this migration tool in " + n.Version + "."
    } else if n.Severity == newdefault {
        s += "is added as a default in " + n.Version + "."
    } else {
        s += "is " + n.Severity + " in " + n.Version + "."
    }
    if n.ReplacedBy != "" {
        s += fmt.Sprintf(` It is replaced by "%v".`, n.ReplacedBy)
    }
    if n.Additional != "" {
        s += " " + n.Additional
    }
    return s
}

const {
    // The following statuses are used to indicate the state of support/deprecation in a given release.
    deprecated  = "deprecated"  // deprecated, but still completely functional
    ignored     = "ignored"     // if included in the corefile, it will be ignored by CoreDNS
    removed     = "removed"     // completely removed from CoreDNS, and would cause CoreDNS to exit if present in
                                // the Corefile
    newdefault  = "newdefault"  // added to the default corefile. CoreDNS may not function properly if it is not present
                                // in the corefile.
    unsupported = "unsupported" // the plugin/option is not supported by the migration tool

    // The following statuses are used for selecting/filtering notifications
    all = "all" // show all statuses
}

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## Copying Container Files

### Motivation

- Copying files from Containers in a cluster to a local filesystem
- Copying files from a local filesystem to Containers in a cluster

Copy requires that *tar* be installed in the container image.

### Local to Remote

Copy a local file to a remote Pod in a cluster.

- Local file format is `<path>`
- Remote file format is `<pod-name>:<path>`

```bash
kubectl cp /tmp/foo_dir <some-pod>:/tmp/bar_dir
```
## Remote to Local

Copy a remote file from a Pod to a local file.

- Local file format is `path`
- Remote file format is `<pod-name>:path`

```bash
kubectl cp <some-pod>:/tmp/foo /tmp/bar
```

## Specify the Container

Specify the Container within a Pod running multiple containers.

- `-c <container-name>`

```bash
kubectl cp /tmp/foo <some-pod>:/tmp/bar -c <specific-container>
```

## Namespaces

Set the Pod namespace by prefixing the Pod name with `<namespace>/`.

- `<pod-namespace>/<pod-name>:path`

```bash
kubectl cp /tmp/foo <some-namespace>/<some-pod>:/tmp/bar
```
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package storageos

import (    "encoding/json"    "github.com/storageos/go-api/types"
)

const (    // licenceAPIPrefix is a partial path to the HTTP endpoint.    licenceAPIPrefix = "licencing"
)


// LicenceApply applies a licence on the server.
func (c *Client) LicenceApply(licenceKey string) error {
    _, err := c.do("POST", licenceAPIPrefix, doOptions{
        data: &types.LicenceKeyContainer{Key: licenceKey},
    })
    return err
}

// LicenceDelete removes the current licence.
func (c *Client) LicenceDelete() error {
    resp, err := c.do("DELETE", licenceAPIPrefix, doOptions{ })
    if err != nil {
        return err
    }
    return resp.Body.Close()
}

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Remember: tomb - support for clean goroutine termination in Go.

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import (
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/soap"
    "github.com/vmware/govmomi/vim25/types"
)

// EvalLicense is the default license
var EvalLicense = types.LicenseManagerLicenseInfo{
    LicenseKey: "00000-00000-00000-00000-00000",
    EditionKey: "eval",
    Name: "Evaluation Mode",
    Properties: []types.KeyAnyValue{
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "serialuri:2",
                Value: "Remote virtual Serial Port Concentrator",
            },
        },
        {
            Key: "feature",
            Value: types.KeyValue{
                Key: "dvs",
                Value: "vSphere Distributed Switch",
            },
        },
    },
}

type LicenseManager struct {
    mo.LicenseManager
func NewLicenseManager(ref types.ManagedObjectReference) object.Reference {
    m := &LicenseManager{
        Self: ref,
        Licenses: []types.LicenseManagerLicenseInfo{EvalLicense}
    }

    if Map.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }

    return m
}

func (m *LicenseManager) AddLicense(req *types.AddLicense) soap.HasFault {
    body := &methods.AddLicenseBody{
        Res: &types.AddLicenseResponse{},
    }

    for _, license := range m.Licenses {
        if license.LicenseKey == req.LicenseKey {
            body.Res.Returnval = licenseInfo(license.LicenseKey, license.Labels)
            return body
        }
    }

    m.Licenses = append(m.Licenses, types.LicenseManagerLicenseInfo{
        LicenseKey: req.LicenseKey,
        Labels:    req.Labels,
    })

    body.Res.Returnval = licenseInfo(req.LicenseKey, req.Labels)

    return body
}

func (m *LicenseManager) RemoveLicense(req *types.RemoveLicense) soap.HasFault {
    body := &methods.RemoveLicenseBody{
        Res: &types.RemoveLicenseResponse{},
    }

    for i, license := range m.Licenses {
        if req.LicenseKey == license.LicenseKey {
            m.Licenses = append(m.Licenses[:i], m.Licenses[i+1:...])
            return body
        }
    }
}
func (m *LicenseManager) UpdateLicenseLabel(req *types.UpdateLicenseLabel) soap.HasFault {
    body := &methods.UpdateLicenseLabelBody{

        for i := range m.Licenses {
            license := &m.Licenses[i]

            if req.LicenseKey != license.LicenseKey {
                continue
            }

            body.Res = new(types.UpdateLicenseLabelResponse)
            for j := range license.Labels {
                label := &license.Labels[j]

                if label.Key == req.LabelKey {
                    if req.LabelValue == "" {
                        license.Labels = append(license.Labels[:i], license.Labels[i+1:]...)
                    } else {
                        label.Value = req.LabelValue
                    }
                    return body
                }
            }

            license.Labels = append(license.Labels, types.KeyValue{
                Key:   req.LabelKey,
                Value: req.LabelValue,
            })

            return body
        }

        body.Fault_ = Fault("", &types.InvalidArgument{InvalidProperty: "licenseKey"})
        return body
    }

    type LicenseAssignmentManager struct {
        mo.LicenseAssignmentManager
    }

    func (m *LicenseAssignmentManager) QueryAssignedLicenses(req *types.QueryAssignedLicenses) soap.HasFault {
        body := &methods.QueryAssignedLicensesBody{
            Res: &types.QueryAssignedLicensesResponse{},
        }

        return body
    }

// EntityId can be a HostSystem or the vCenter InstanceUuid
if req.EntityId != "" {
    if req.EntityId != Map.content().About.InstanceUuid {
        id := types.ManagedObjectReference{
            Type: "HostSystem",
            Value: req.EntityId,
        }

        if Map.Get(id) == nil {
            return body
        }
    }
}

body.Res.Returnval = []types.LicenseAssignmentManagerLicenseAssignment{
    {
        EntityId: req.EntityId,
        AssignedLicense: EvalLicense,
    },
}

return body
}

func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense

    info.LicenseKey = key
    info.Labels = labels

    return info
}

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

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1.1974 curl 7.58.0-2ubuntu3.18
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1.1975 libwayland-client0 1.18.0-1

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1.1978 lz4 0.0~r131 2ubuntu3

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AES in libhcrypto

Optimised ANSI C code for the Rijndael cipher (now AES)

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation
code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis
Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau,
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(GEnie : OUTER; CIS : [71755,204]) Graven Imagery, 1992.

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lib/hcrypto/test_dh.c

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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DES core in libhcrypto

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D3DES (V5.09) -

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lib/hcrypto/test_dh.c

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cpan/podlators/t/docs/pod.t
cpan/podlators/t/docs/synopsis.t
cpan/podlators/t/lib/Test/RRA.pm
cpan/podlators/t/lib/Test/RRA/Config.pm
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dist/base/*
dist/constant/*
dist/Devel-SelfStubber/*
dist/Dumpvalue/*
dist/Env/*
dist/ExtUtils-Command/*
dist/ExtUtils-Manifest/*
dist/I18N-Collate/*
dist/Safe/*
ext/Fcntl/*
ext/FileCache/*
ext/GDBM_File/*
ext/IPC-Open2/*
ext/IPC-Open3/*
ext/NDBM_File/*
ext/ODBM_File/*
ext/Opcode/*
ext/PerlIO-encoding/*
ext/PerlIO-scalar/*
ext/PerlIO-via/*
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1.1992 jetty-security 9.4.43.v20210629

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* org.eclipse.jetty.orbit:javax.mail.glassfish

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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

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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
org.apache.taglibs:taglibs-standard-impl

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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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1.1993 etc 1.1.0

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1.1994 evanphx-json-patch

4.12.0+incompatible

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1.1995 fluent-plugin-journal-parser 0.1.1

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1.1996 pax-utils 1.2.6-r1

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1.1997 python3.8 3.8.0-3ubuntu1~18.04.2
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

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

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

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

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src/arc4random_unix.h
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src/getentropy_aix.c
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1.2003 jackson 2.12.3
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1.2005 parse 0.0.0-20190718012654-
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1.2009 jackson-xc 2.12.3

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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>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Manifest-Version: 1.0
Export-Package: javax.annotation;uses:="javax.annotation.meta";version="3.0.1",javax.annotation.concurrent;version="3.0.1",javax.annotation.meta;uses:="javax.annotation";version="3.0.1"
Built-By: lan
Tool: Bnd-2.1.0.20130426-122213
Bundle-Name: FindBugs-jsr305
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.7.0_80
Bundle-Version: 3.0.1
Bnd-LastModified: 1444367176355
Bundle-ManifestVersion: 2
Bundle-Description: JSR305 Annotations for Findbugs
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: org.jsr-305
Archiver-Version: Plexus Archiver

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

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1.2018 logstash-integration-kafka 10.10.0

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1.2019 hppc 0.5.4

1.2020 certifi 2018.01.18
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* /opt/cola/permits/1244677579_1639752465.07/0/gax-httpjson-0-83-0-sources-jar/com/google/api/gax/httpjson/EmptyMessage.java

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* /opt/cola/permits/1244677579_1639752465.07/0/gax-httpjson-0-83-0-sources-jar/com/google/api/gax/httpjson/ProtoMessageResponseParser.java
* /opt/cola/permits/1244677579_1639752465.07/0/gax-httpjson-0-83-0-sources-jar/com/google/api/gax/httpjson/FieldsExtractor.java
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  * /opt/cola/permits/1244677579_1639752465.07/0/gax-httpjson-0-83-0-sources.jar/com/google/api/gax/httpjson/ApiMessageHttpResponseParser.java
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'openssl/crypto/x509v3/v3_utl.c',
'openssl/crypto/x509v3/v3err.c',
'openssl/engines/e_capl.c',
'openssl/engines/e_padlock.c',
],

'openssl_sources_BSD-x86': [
'./config/archs/BSD-x86/asm/crypto/aesni-x86.s',
'./config/archs/BSD-x86/asm/crypto/aes/aesni-x86.s',
'./config/archs/BSD-x86/asm/crypto/aes/vpae-x86.s',
'./config/archs/BSD-x86/asm/crypto/bf/bf-586.s',
'./config/archs/BSD-x86/asm/crypto/bn/bn-586.s',
'./config/archs/BSD-x86/asm/crypto/bn/co-586.s',
'./config/archs/BSD-x86/asm/crypto/bn/x86-gf2m.s',
'./config/archs/BSD-x86/asm/crypto/bn/x86-mont.s',
'./config/archs/BSD-x86/asm/crypto/camellia/cml-86.x86.s',
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[36x36]

`./config/archs/BSD-x86/asm/crypto/des/crypt586.s`,
`./config/archs/BSD-x86/asm/crypto/des/des-586.s`,
`./config/archs/BSD-x86/asm/crypto/ec/ecp_nistz256-x86.s`,
`./config/archs/BSD-x86/asm/crypto/md5/md5-586.s`,
`./config/archs/BSD-x86/asm/crypto/modes/ghash-x86.s`,
`./config/archs/BSD-x86/asm/crypto/poly1305/poly1305-x86.s`,
`./config/archs/BSD-x86/asm/crypto/rc4/rc4-586.s`,
`./config/archs/BSD-x86/asm/crypto/ripemd/rmd-586.s`,
`./config/archs/BSD-x86/asm/crypto/sha/sha1-586.s`,
`./config/archs/BSD-x86/asm/crypto/sha/sha256-586.s`,
`./config/archs/BSD-x86/asm/crypto/sha/sha512-586.s`,
`./config/archs/BSD-x86/asm/crypto/whirlpool/wp-mmx.s`,
`./config/archs/BSD-x86/asm/crypto/x86cpuid.s`,
`./config/archs/BSD-x86/asm/engines/e_padlock-x86.s`,
],

'openssl_defines_BSD-x86': [
    'NDEBUG',
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    'OPENSSL_PID',
    'OPENSSL_CPUID_OBJ',
    'OPENSSL_BN_ASM_PART_WORDS',
    'OPENSSL_IA32_SSE2',
    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_GF2m',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'RC4_ASM',
    'MD5_ASM',
    'RMD160_ASM',
    'AESNI_ASM',
    'VPAES_ASM',
    'WHIRLPOOL_ASM',
    'GHASH_ASM',
    'ECP_NISTZ256_ASM',
    'POLY1305_ASM',
],

'openssl_cflags_BSD-x86': [
    '-Wa,-noexecstack',
    '-Wall -O3 -fomit-frame-pointer',
    '-pthread',
    '-Wall -O3 -fomit-frame-pointer',
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'openssl_ex_libs_BSD-x86': [
    '-pthread',
],

'include_dirs': [  

---

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The End
version 1.2.11, January 15th, 2017

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}
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THE BASIC LIBRARY FUNCTIONS

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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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<td>PSF</td>
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    'openssl/ssl/d1_lib.c',
    'openssl/ssl/d1_msg.c',
    'openssl/ssl/d1_srtp.c',
    'openssl/ssl/methods.c',
    'openssl/ssl/packet.c',
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'openssl/crypto/aes/aes_ecb.c',
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'openssl/crypto/aes/aes_misc.c',
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'openssl/crypto/asn1/a_i2d_fp.c',
'openssl/crypto/asn1/a_int.c',
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'openssl/crypto/cast/c_enc.c',
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'openssl/crypto/x509/x509type.c',
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    './config/archs/BS-x86_64/asm_avx2/crypto/aesni-sha1-x86_64.s',
    './config/archs/BS-x86_64/asm_avx2/crypto/aesni-sha256-x86_64.s',
    './config/archs/BS-x86_64/asm_avx2/crypto/aesni-x86_64.s',
    './config/archs/BS-x86_64/asm_avx2/crypto/vpaes-x86_64.s',
    './config/archs/BS-x86_64/asm_avx2/crypto/bn/rsaz-avx2.s',
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    './config/archs/BS-x86_64/asm_avx2/crypto/sha256-x86_64.s',
    './config/archs/BS-x86_64/asm_avx2/crypto/sha512-x86_64.s',
    './config/archs/BS-x86_64/asm_avx2/crypto/wp/wp-x86_64.s',
    './config/archs/BS-x86_64/asm_avx2/crypto/wrplpool/wp-x86_64.s',
    './config/archs/BS-x86_64/asm_avx2/engines/e_padlock-x86_64.s',
],
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    'OPENSSL_BN_ASM_MONT',
    'OPENSSL_BN_ASM_MONT5',
    'OPENSSL_BN_ASM_GF2m',
    'SHA1_ASM',
    'SHA256_ASM',
    'SHA512_ASM',
    'KECCAK1600_ASM',
    'RC4_ASM',
    'MD5_ASM',
    'AESNI_ASM',
    'VPAES_ASM',
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'GHASH_ASM',
'ECP_NISTZ256_ASM',
'X25519_ASM',
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'openssl_cflags_BSD-x86_64': [
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'openssl_ex_libs_BSD-x86_64': [
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'include_dirs': [
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}
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wcwidth.js: JavaScript Portng of Markus Kuhn's wcwidth() Implementation
=======================================================================
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This package is a JavaScript porting of `wcwidth()` implementation
[by Markus Kuhn](http://www.cl.cam.ac.uk/~mgk25/ucs/wcwidth.c).

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Minizlib was created by Isaac Z. Schlueter.
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}
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defines:['<@(openssl_defines_BSD-x86)'],
cflags: ['<@(openssl_cflags_BSD-x86)'],
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}
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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

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

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name: license update

on:
schedule:
  # 00:00:00 every Monday
  # https://crontab.guru/#0_0_*_*_1
  - cron: "0 0 * * 1"

workflow_dispatch:

jobs:
  update_license:
    if: github.repository == 'nodejs/node'
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
with:
  persist-credentials: false
- run: "/tools/license-builder.sh"  # Run the license builder tool
- uses: gr2m/create-or-update-pull-request-action@v1.x  # Create a PR or update the Action's existing PR
env:
  GITHUB_TOKEN: ${{ secrets.GITHUB_TOKEN }}
with:
  author: Node.js GitHub Bot <github-bot@iojs.org>
  branch: actions/license-builder
  title: "doc: run license-builder"
  body: >
    License is likely out of date. This is an automatically generated PR by
    the `license-builder.yml` GitHub Action, which runs `license-builder.sh`
    and submits a new PR or updates an existing PR.
  commit-message: 'doc: run license-builder'
  labels: meta

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1.2042 libgssapiheimdal 7.7.0+dfsg-1ubuntu1

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GSS-API mechglue layer.

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<td>HDB LDAP backend.</td>
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AES in libhcrypto

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rijndael-alg-fst.c

@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>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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D3DES (V5.09)

A portable, public domain, version of the Data Encryption Standard.

Written with Symantec’s THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.c

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Clockwork - a scheduler process to replace cron

Cron is non-ideal for running scheduled application tasks, especially in an app deployed to multiple machines. [More details.](http://adam.heroku.com/past/2010/4/13/rethinking_cron/)

Clockwork is a lightweight, long-running Ruby process which sits alongside your web processes (Mongrel/Thin) and your worker processes (DJ/Resque/Minion/Stalker) to schedule recurring work at particular times or dates. For example, refreshing feeds on an hourly basis, or send reminder emails on a nightly basis, or generating invoices once a month on the 1st.

Example
-------

Create schedule.rb:

```ruby
require 'clockwork'
include Clockwork

every('10s') { puts 'every 10 seconds' }
every('3m') { puts 'every 3 minutes' }
every('1h') { puts 'once an hour' }
every('1d', :at => '00:00') { puts 'every night at midnight' }
```

Run it with the clockwork binary:

   $ clockwork schedule.rb

Or run directly with Ruby:

   $ ruby -r schedule -e Clockwork.run

Use with queueing

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

Clockwork only makes sense as a place to schedule work to be done, not to do
the work. It avoids locking by running as a single process, but this makes it
impossible to parallelize. For doing the work, you should be using a job
queueing system, such as

[Delayed Job](http://www.therailsway.com/2009/7/22/do-it-later-with-delayed-job),
[Beanstalk/Stalker](http://adam.heroku.com/past/2010/4/24/beanstalk_a_simple_and_fast_queueing_backend/),
[RabbitMQ/Minion](http://adamblog.heroku.com/past/2009/9/28/background_jobs_with_rabbitmq_and_minion/),
or
[Resque](http://github.com/blog/542-introducing-resque). This design allows
a simple scheduler process with no locks, but also offers near infinite
horizontal scalability.

For example, if you're using Beanstalk/Staker:

    require 'clockwork'
    include Clockwork

    require 'stalker'
    include Stalker

    every('1h') { enqueue('feeds.refresh') }
    every('1d', :at => '01:30') { enqueue('reminders.send') }

Using a queueing system which doesn't require that your full application be
loaded is preferable, because the scheduler process can keep a tiny memory
footprint. If you're using DJ or Resque, however, you can go ahead and load
your full application enviroment. For example, with DJ/Rails:

    require 'config/boot'
    require 'config/environment'

    require 'clockwork'
    include Clockwork

    every('1h') { Feed.send_later(:refresh) }
    every('1d', :at => '01:30') { Reminder.send_later(:send_reminders) }

In production
-------------

Only one scheduler process should ever be running across your whole application deployment. For example, if your app is running on three VPS machines (two app servers and one database), your app machines might have the following process topography:

* Machine 1: 3 web (thin start), 3 workers (rake jobs:work), 1 scheduler (clockwork schedule.rb)
* Machine 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your scheduler process running the same way you keep your web and workers running.

Meta
----

Created by Adam Wiggins

Inspired by [rufus-scheduler](http://rufus.rubyforge.org/rufus-scheduler/) and [http://github.com/bvandenbos/resque-scheduler](resque-scheduler)

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http://github.com/adamwiggins/clockwork

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* /opt/cola/permits/1097867769_1602199525.59/0/adamwiggins-clockwork-v0-1-0-0-g596af5c-tar-gz/adamwiggins-clockwork-596af5c/README.md

1.2044 jersey-container-servlet-core 2.25.1

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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webservice for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.2047 jackson 2.10.4
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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 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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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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1.2056 sigar 1.6.4

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Eclipse

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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](http://openjdk.java.net/legal/gplv2+ce.html)

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of [http://asm.ow2.org/license.html](http://asm.ow2.org/license.html)

org.ow2.asm:asm-commons
org.ow2.asm:asm

---

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

---

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

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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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.
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1.2059 glibc 2.24-11+deb9u1
1.2059.1 Available under license :

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---------------------------------------------------------------------------
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Built-By: uriel
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Version 3.1, 31 March 2009

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# PCG64

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PCG Random Number Generation for C.

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# SPLITMIX64

Written in 2015 by Sebastiano Vigna (vigna@acm.org)

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# SFC64

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Adapted from a C++ implementation of Chris Doty-Humphrey's SFC PRNG.

https://gist.github.com/imneme/f1f7821f07cf76504a97f6537c818083

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The rk_random and rk_seed functions algorithms and the original design of
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Original algorithm for the implementation of \texttt{rk\_interval} function from Richard J. Wagner's implementation of the Mersenne Twister RNG, optimised by Magnus Jonsson.

Constants used in the \texttt{rk\_double} implementation by Isaku Wada.

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1.2072 six 1.15.0

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
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set style histogram errorbars gap 2 lw 1
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* https://github.com/eclipse-ee4j/jersey

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Metadata-Version: 1.0
Name: argparse
Version: 0.7.0
Summary: An optparse-inspired command-line parsing library
Home-page: http://argparse.python-hosting.com/
Author: Steven Bethard
Author-email: steven.bethard@gmail.com
License: BSD
Description: Argparse takes the best of the optparse command-line parsing module
    and brings it new life. Argparse adds positional as well as
    optional arguments, the ability to create parsers for sub-commands,
    more informative help and usage messages, and much more. At the
    same time, it retains the ease and flexibility of use that made
    optparse so popular.
Platform: UNKNOWN
Classifier: Development Status :: 3 - Alpha
Classifier: Environment :: Console
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Software Development

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* /opt/cola/permits/1000038828_1646171452.21/0/argparse-0-7-0-zip/argparse-0.7.0/PKG-INFO

1.2085 libquadmath 10.3.0-1ubuntu1~20.04
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@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 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:

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

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

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = `$(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
image: $(BSD_LIB)

$(BSD_LIB): $(OBJ)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_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 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:
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Gadi Oxman, August 1995

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1.2096 slf4j-log4j 1.7.2

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1.2098 glibc 2.27-3ubuntu1.4

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## Harfbuzz v2.7.2

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</pre>

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@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndaal cipher (now AES)

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- `analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java`
- `analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java`
- `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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analysis/common/src/resources/org/apache/lucene/analysis/bg/stopwords.txt,
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1.2118 json 2.5.1

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1.2121 libsigar 1.6.4

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1.2127 reporter-config 3.0.3

1.2128 azure-storage-blob 12.9.0

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1.2129 pycparser 2.21

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

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1.2156 logstash-filter-kv 4.7.0

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1.2160 urllib3 1.26.3

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>
## 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/@WBRSRlBZDhBFXQB6/>
  * 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

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

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

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * 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 Figovskiy <boris.figovskiy@ravellosystems.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 Vandenberg <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 vending

* 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.

* Jorge Lopez Silva <https://github.com/jalopezsilva>
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>
  * Allow cadata parameter to be passed to underlying ``SSLContext.load_verify_locations()``.

* Keiichi Kobayashi <abok.1k@gmail.com>
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>
* DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>
  * Test improvements

* Chris Olufson <tycarac@gmail.com>
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
  * Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
  * Ports and extends on types from typeshed

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

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1.2162 fileutils 1.1.0
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1.2171 linux-libc-dev 4.15.0-184.194

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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

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

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Version 2, June 1991

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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.

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.
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.

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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.

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

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

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

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

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

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

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

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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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.)

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

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2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, 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) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

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

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

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

In addition, mere aggregation of another work not based on the Program
with the Program (or with a work based on the Program) on a volume of a
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above on a medium customarily used for software interchange; or,

* b) Accompany it with a written offer, valid for at least three years,
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physically performing source distribution, a complete machine-
readable copy of the corresponding source code, to be distributed
under the terms of Sections 1 and 2 above on a medium customarily
used for software interchange; or,

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

The source code for a work means the preferred form of the work for
making modifications to it. For an executable work, complete source code
means all the source code for all modules it contains, plus any
associated interface definition files, plus the scripts used to control
compilation and installation of the executable. However, as a special
exception, the source code distributed need not include anything that is
normally distributed (in either source or binary form) with the major
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* /opt/cola/permits/1300661615_1649159272.78/0/protobuf-java-3-16-1-sources-
  jar/google/protobuf/field_mask.proto
* /opt/cola/permits/1300661615_1649159272.78/0/protobuf-java-3-16-1-sources-
  jar/com/google/protobuf/ProtobufArrayList.java
* /opt/cola/permits/1300661615_1649159272.78/0/protobuf-java-3-16-1-sources-
  jar/com/google/protobuf/RpcUtil.java
* /opt/cola/permits/1300661615_1649159272.78/0/protobuf-java-3-16-1-sources-
  jar/com/google/protobuf/Internal.java
* /opt/cola/permits/1300661615_1649159272.78/0/protobuf-java-3-16-1-sources-
  jar/com/google/protobuf/DiscardUnknownFieldsParser.java
* /opt/cola/permits/1300661615_1649159272.78/0/protobuf-java-3-16-1-sources-
  jar/com/google/protobuf/LazyStringArrayList.java
* /opt/cola/permits/1300661615_1649159272.78/0/protobuf-java-3-16-1-sources-
  jar/com/google/protobuf/ArrayDecoders.java
* /opt/cola/permits/1300661615_1649159272.78/0/protobuf-java-3-16-1-sources-
  jar/com/google/protobuf/GeneratedMessageV3.java
* /opt/cola/permits/1300661615_1649159272.78/0/protobuf-java-3-16-1-sources-
  jar/com/google/protobuf/GeneratedMessageV3.java
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1.2177 mime-support 3.60

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1.2181 kubernetes-apimachinery 0.22.3

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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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, Pietr
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
Fagon, Ariel
Farrell, Brian
Fobes, Steve
Frysinger, Mike
G., Daniel Richard
Gailly, Jean-loup
Gelman, Stephen
Gerraty, Simon J.
Graber, Stephane
Guillery, 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
Kienenerber, Mike
King, Dale
King, Michael
Klyachkin, Andrey
Knoble, Jim
Knox, Tim
Komarnitsky, Alek O.
Kondrashov, Nikolai
Kopeek, Daniel
Kranenburg, Paul
Krause, David
Lakin, Eric
Larsen, Case
Levin, Dmitry V.
Libby, Kendall
Lobbes, Phillip E.
McIntyre, Jason
MacKenzie, David J.
McLaughlin, Tom
Makey, Jeff
Marchionna, Michael D.
Markham, Paul
Martinian, Emin
Meskes, Michael
Michael, David
Miller, Todd C.
Minier, Loc
Moffat, Darren
Moldung, Jan Thomas
Morris, Charles
Mueller, Andreas
Mlller, Dworkin
Nieusma, Jeff
Nikitser, Peter A.
Nussel, Ludwig
Ouellet, Jean-Philippe
Paquet, Eric
Paradis, Chantal
Percival, Ted
Perera, Andres
Peron, Christian S.J.
Peschel, Aaron
Peslyak, Alexander
Peterson, Toby
Petten, Diego Elio
Pickett, Joel
Plotnick, Alex
de Raadt, Theo
Rasch, Gudleik
Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
SATO, Yuichi
Sánchez, Wilfredo
Saucier, Jean-Francois
Schoenfeld, Patrick
Schuring, Arno
Schwarze, Ingo
Scott, Dougal
Sieger, Nick
Simon, Thor Lancelot
Slemko, Marc
Smith, Andy
Sobrado, Igor
Soulen, Steven
Spangler, Aaron
Spradling, Cloyce D.
Stier, Matthew
Stoeckmann, Tobias
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Stritzky, Tilo
Stroucken, Michael
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Todd, Giles
Toft, Martin
Torek, Chris
Tucker, Darren
Uhl, Robert
Uzel, Petr
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Wagner, Klaus
Walsh, Dan
Warburton, John
Webb, Kirk
Wetzel, Timm
Wieringen, Marco van
Wilk, Jakub
Winiger, Gary
Wood, David
Zacarias, Gustavo
Zolnowsky, John

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

Blittermann, Mario
Bogusz, Jakub
Casagrande, Milo
Castro, Felipe
Cho, Seong-ho
Chornoivan, Yuri
Diguez, Francisco
Ferreira, Rafael
Garca-Fontes, Walter
Gezer, Volkan
Hamasaki, Takeshi
Hamming, Peter
Hansen, Joe
Hantrais, Frédéric
Hein, Jochen
Hufthammer, Karl Ove
Jeroek, Damir
Karvonen, Jorma
Kazik, Duan
Kelemen, Gbor
Koir, Klemen
Kozlov, Yuri
Kramer, Jakob
Krznar, Tomislav
Marchal, Frédéric
Margevius, Algimantas
Maryanov, Pavel
Nikoli, Miroslav
Nylander, Daniel
Psa, Petr
Qun, Trn Ngc
Regueiro, Leandro
Sarer, zgr
Sendn, Abel
Sikrom, ka
Spingos, Dimitris
Taniguchi, Yasuaki
Tomat, Fbio
Uranga, Mikel Olasagasti
Vorotnikov, Artem
**1.2189 pyasn1-modules 0.2.8**

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* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/xxhash/XXHash32.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/util/ByteBufferUtils.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4JNICompressor.java
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* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4UnknownSizeDecompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4SafeDecompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4JNIFastDecompressor.java
* /opt/cola/permits/1192756266_1629279299.6/0/lz4-java-1-8-0-sources-jar/net/jpountz/lz4/LZ4JNISafeDecompressor.java
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1.2208 klauspost-compress 1.11.13

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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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changes were used in the work (which must be distributed under
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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
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
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specified in Subsection 6a, above, for a charge no more
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d) If distribution of the work is made by offering access to copy
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which the executable runs, unless that component itself accompanies
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A. HISTORY OF THE SOFTWARE

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

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

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

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes
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This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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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
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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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1.2211 tomcat-catalina 9.0.63

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

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/FinnishLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/fr/FrenchMinimalStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/hu/HungarianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/it/ItalianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/pt/PortugueseLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/ru/RussianLightStemmer.java
analysis/common/src/java/org/apache/lucene/analysis/sv/SwedishLightStemmer.java

The Stempel analyzer (stempel) includes BSD-licensed software developed
by the Egothor project http://egothor.sf.net/, created by Leo Galambos, Martin Kvapil,
and Edmond Nolan.

The Polish analyzer (stempel) comes with a default
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in stempel/src/resources/org/apache/lucene/analysis/pl/stopwords.txt.
See https://project.carrot2.org/license.html.

The SmartChineseAnalyzer source code (smarten) was
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Servlet-api.jar and javax.servlet-*.jar are under the CDDL license, the original source code for this can be found at http://www.eclipse.org/jetty/downloads.php

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Kuromoji Japanese Morphological Analyzer - Apache Lucene Integration
===========================================================================

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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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mecab-ipadic-2.7.0-20070801 Notice
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mecab-ko-dic-2.0.3-20170922

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1.2215 bctls-jdk15on 1.68

1.2215.1 Available under license:

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

    public static final ProtocolName WEBRTC_CONFIDENTIAL = asUtf8Encoding("c-webrtc");

    Found in path(s):
* /opt/cola/permits/1307745966_1649953267.0/0/bctls-jdk15on-1-68-sources-jar/org/bouncycastle/tls/ProtocolName.java

1.2216 libyaml 0.1.7-2

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1.2217 cpp 8.4.0 1ubuntu1~18.04

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1.2220 yajl-ruby 1.4.1-2.ph4

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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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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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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.

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restrictions of other proprietary libraries that do not normally
accompany the operating system. Such a contradiction means you cannot
use both them and the Library together in an executable that you
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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 added to the e2fsprogs debian source package by
Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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

http://sourceforge.net/projects/e2fsprogs

Upstream Author: Theodore Ts'o <tytso@mit.edu>

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

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

From the original distribution:

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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; Id -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'"/$(BSD_LIB) $(BSD_LIB))

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

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
clean:
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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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whether or not they are linked directly with the Library itself.

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machine-readable source code for the Library including whatever
changes were used in the work (which must be distributed under
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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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That's all there is to it!
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.

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

THE BASIC LIBRARY FUNCTIONS

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

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PCRE JUST-IN-TIME COMPILATION SUPPORT

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1.2232 test 3.2.8

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1.2234 libllvm12 12.0.0-3ubuntu1~20.04.5

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; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %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
}

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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
}
; CHECK: call void @llvm.masked.scatter.nxv4i32
define void @masked_scatter_nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, <vscale x 4 x i1> %masks) {
call void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 0, <vscale x 4 x i1> %masks)
ret void
}

; Testing that masked scatters operating on scalable vectors of FP
data that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f64(
; CHECK: call void @llvm.masked.scatter.nxv2f64
define void @masked_scatter_nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, <vscale x 2 x i1> %masks) {
call void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32 0, <vscale x 2 x i1> %masks)
ret void
}

; Testing that masked scatters operating on scalable vectors of FP
data that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_scatter_nxv2f16(
; CHECK: call void @llvm.masked.scatter.nxv2f16
define void @masked_scatter_nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, <vscale x 2 x i1> %masks) {
call void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, i32 0, <vscale x 2 x i1> %masks)
ret void
}

; Testing that masked scatters operating on 64-bit fixed vectors are
scalarized because NEON doesn't have support for masked scatter
; instructions.

; CHECK-LABEL: @masked_scatter_v2f32(
; CHECK-NOT: @llvm.masked.scatter.v2f32(
define void @masked_scatter_v2f32(<2 x float> %data, <2 x float*> %ptrs, <2 x i1> %masks) {
call void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 0, <2 x i1> %masks)
ret void
}

; Testing that masked scatters operating on 128-bit fixed vectors are
scalarized because NEON doesn't have support for masked scatter
; instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_scatter_v4i32(
; CHECK-NOT: @llvm.masked.scatter.v4i32(
define void @masked_scatter_v4i32(<4 x i32> %data, <4 x i32*> %ptrs, <4 x i1> %masks) {
call void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 0, <4 x i1> %masks)
ret void
}

declare void @llvm.masked.scatter.nxv4i32(<vscale x 4 x i32> %data, <vscale x 4 x i32*> %ptrs, i32 %align, <vscale x 4 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f64(<vscale x 2 x double> %data, <vscale x 2 x double*> %ptrs, i32 %align, <vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.nxv2f16(<vscale x 2 x half> %data, <vscale x 2 x half*> %ptrs, i32 %align, <vscale x 2 x i1> %masks)
declare void @llvm.masked.scatter.v2f32(<2 x float> %data, <2 x float*> %ptrs, i32 %align, <2 x i1> %masks)
declare void @llvm.masked.scatter.v4i32(<4 x i32> %data, <4 x i32*> %ptrs, i32 %align, <4 x i1> %masks)

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; RUN: opt -mtriple=aarch64-linux-gnu -mattr=+sve -scalarize-masked-mem-intrin -S < %s 2>%t | FileCheck %s 
; RUN: FileCheck --check-prefix=WARN --allow-empty %s <%t

; If this check fails please read test/CodeGen/AArch64/README for instructions on how to resolve it.
; WARN-NOT: warning

; Testing that masked gathers operating on scalable vectors that are 
; packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv4i32( 
; CHECK: call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32 
define <vscale x 4 x i32> @masked_gather_nxv4i32(<vscale x 4 x i32*> %ld, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru) {
  %res = call <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ld, i32 0, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru) 
  ret <vscale x 4 x i32> %res 
}

; Testing that masked gathers operating on scalable vectors of FP data 
; that is packed in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f64( 
; CHECK: call <vscale x 2 x double> @llvm.masked.gather.nxv2f64 
define <vscale x 2 x double> @masked_gather_nxv2f64(<vscale x 2 x double*> %ld, <vscale x 2 x i1> %masks, <vscale x 2 x double> %passthru) {
  %res = call <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ld, i32 0, <vscale x 2 x i1> %masks, <vscale x 2 x double> %passthru) 
  ret <vscale x 2 x double> %res 
}

; Testing that masked gathers operating on scalable vectors of FP data 
; that is unpacked in SVE registers are not scalarized.

; CHECK-LABEL: @masked_gather_nxv2f16( 
; CHECK: call <vscale x 2 x half> @llvm.masked.gather.nxv2f16 
define <vscale x 2 x half> @masked_gather_nxv2f16(<vscale x 2 x half*> %ld, <vscale x 2 x i1> %masks, <vscale x 2 x half> %passthru) {
  %res = call <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ld, i32 0, <vscale x 2 x i1> %masks, <vscale x 2 x half> %passthru) 
  ret <vscale x 2 x half> %res 
}
Testing that masked gathers operating on 64-bit fixed vectors are scalarized because NEON doesn't have support for masked gather instructions.

; CHECK-LABEL: @masked_gather_v2f32
; CHECK-NOT: @llvm.masked.gather.v2f32(
define <2 x float> @masked_gather_v2f32(<2 x float*> %ld, <2 x i1> %masks, <2 x float> %passthru) {
    %res = call <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ld, i32 0, <2 x i1> %masks, <2 x float> %passthru)
    ret <2 x float> %res
}

Testing that masked gathers operating on 128-bit fixed vectors are scalarized because NEON doesn't have support for masked gather instructions and because we are not targeting fixed width SVE.

; CHECK-LABEL: @masked_gather_v4i32
; CHECK-NOT: @llvm.masked.gather.v4i32(
define <4 x i32> @masked_gather_v4i32(<4 x i32*> %ld, <4 x i1> %masks, <4 x i32> %passthru) {
    %res = call <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ld, i32 0, <4 x i1> %masks, <4 x i32> %passthru)
    ret <4 x i32> %res
}

declare <vscale x 4 x i32> @llvm.masked.gather.nxv4i32(<vscale x 4 x i32*> %ptrs, i32 %align, <vscale x 4 x i1> %masks, <vscale x 4 x i32> %passthru)
declare <vscale x 2 x double> @llvm.masked.gather.nxv2f64(<vscale x 2 x double*> %ptrs, i32 %align, <vscale x 2 x double> %passthru)
declare <vscale x 2 x half> @llvm.masked.gather.nxv2f16(<vscale x 2 x half*> %ptrs, i32 %align, <vscale x 2 x half> %passthru)
declare <2 x float> @llvm.masked.gather.v2f32(<2 x float*> %ptrs, i32 %align, <2 x i1> %masks, <2 x float> %passthru)
declare <4 x i32> @llvm.masked.gather.v4i32(<4 x i32*> %ptrs, i32 %align, <4 x i1> %masks, <4 x i32> %passthru)
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; NOTE: Assertions have been autogenerated by tools/update_test_checks.py
; RUN: opt -S -verify -iroutliner -ir-outlining-no-cost < %s | FileCheck %s

; This test looks checks that debug info is extracted along with the other
; instructions.

define void @function1() !dbg !6 {
; CHECK-LABEL: @function1(
; CHECK-NEXT: entry:
; CHECK-NEXT: [[A:%.*]] = alloca i32, align 4, [[DBG17:!dbg !.*]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[A]], [[META9:metadata !.*]], metadata
!DIExpression()), [[DBG17]]
; CHECK-NEXT: [[B:%.*]] = alloca i32, align 4, [[DBG18:!dbg !.*]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[B]], [[META11:metadata !.*]], metadata
!DIExpression()), [[DBG18]]
; CHECK-NEXT: [[C:%.*]] = alloca i32, align 4, [[DBG19:!dbg !.*]]
; CHECK-NEXT: call void @llvm.dbg.value(metadata i32* [[C]], [[META12:metadata !.*]], metadata
!DIExpression()), [[DBG19]]
; CHECK-NEXT: call void @outlined_ir_func_0(i32* [[A]], i32* [[B]], i32* [[C]], [[DBG20:!dbg !.*]])
; CHECK-NEXT: ret void, [[DBG21:!dbg !.*]]
)
entry:
%a = alloca i32, align 4, !dbg !17
call void @llvm.dbg.value(metadata i32* %a, metadata !9, metadata !DIExpression()), !dbg !17
%b = alloca i32, align 4, !dbg !18
call void @llvm.dbg.value(metadata i32* %b, metadata !11, metadata !DIExpression()), !dbg !18
%c = alloca i32, align 4, !dbg !19
call void @llvm.dbg.value(metadata i32* %c, metadata !12, metadata !DIExpression()), !dbg !19
store i32 2, i32* %a, align 4, !dbg !20
store i32 3, i32* %b, align 4, !dbg !21
store i32 4, i32* %c, align 4, !dbg !22
%al = load i32, i32* %a, align 4, !dbg !23
call void @llvm.dbg.value(metadata i32 %al, metadata !13, metadata !DIExpression()), !dbg !23
%bl = load i32, i32* %b, align 4, !dbg !24
call void @llvm.dbg.value(metadata i32 %bl, metadata !15, metadata !DIExpression()), !dbg !24
%cl = load i32, i32* %c, align 4, !dbg !25
call void @llvm.dbg.value(metadata i32 %cl, metadata !16, metadata !DIExpression()), !dbg !25
ret void, !dbg !26
}

define void @function2() !dbg !27 {
    entry:
    %a = alloca i32, align 4, !dbg !35
call void @llvm.dbg.value(metadata i32* %a, metadata !29, metadata !DIExpression()), !dbg !35
%b = alloca i32, align 4, !dbg !36
call void @llvm.dbg.value(metadata i32* %b, metadata !30, metadata !DIExpression()), !dbg !36
%c = alloca i32, align 4, !dbg !37
call void @llvm.dbg.value(metadata i32* %c, metadata !31, metadata !DIExpression()), !dbg !37
store i32 2, i32* %a, align 4, !dbg !38
store i32 3, i32* %b, align 4, !dbg !39
store i32 4, i32* %c, align 4, !dbg !40
%al = load i32, i32* %a, align 4, !dbg !41
call void @llvm.dbg.value(metadata i32 %al, metadata !32, metadata !DIExpression()), !dbg !41
%bl = load i32, i32* %b, align 4, !dbg !42
call void @llvm.dbg.value(metadata i32 %bl, metadata !33, metadata !DIExpression()), !dbg !42
%cl = load i32, i32* %c, align 4, !dbg !43
call void @llvm.dbg.value(metadata i32 %cl, metadata !34, metadata !DIExpression()), !dbg !43
ret void, !dbg !44
}

; Function Attrs: nounwind readnone speculatable willreturn
declare void @llvm.dbg.value(metadata, metadata, metadata) #0

attributes #0 = { nounwind readnone speculatable willreturn }

!!llvm.dbg_cu = !{0}
!!llvm.debugify = !{3, 4}
!!llvm.module.flags = !{5}

!0 = distinct !DIClubUnit(language: DW_LANG_C, file: !1, producer: "debugify", isOptimized: true, runtimeVersion: 0, emissionKind: FullDebug, enums: !2)
!1 = !DIFile(filename: "legal-debug.ll", directory: "")
!2 = !{132 20}
!3 = !{32 12}
!4 = !{32 2, !"Debug Info Version", i32 3}
!5 = !{32 2, !"Debug Info Version", i32 3}
!6 = distinct !DISubprogram(name: "function1", linkageName: "function1", scope: null, file: !1, line: 1, type: !7, scopeLine: 1, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !8)
!7 = !DISubroutineType(types: !2)
!8 = !{9, 11, 12, 13, 15, 16}
!9 = !DILocalVariable(name: "1", scope: !6, file: !1, line: 1, type: !10)
!10 = !DIBasicType(name: "ty64", size: 64, encoding: DW_ATE_unsigned)
!11 = !DILocalVariable(name: "2", scope: !6, file: !1, line: 2, type: !10)
!12 = !DILocalVariable(name: "3", scope: !6, file: !1, line: 3, type: !10)
!13 = !DILocalVariable(name: "4", scope: !6, file: !1, line: 7, type: !14)
!14 = !DIBasicType(name: "ty32", size: 32, encoding: DW_ATE_unsigned)
!15 = !DILocalVariable(name: "5", scope: !6, file: !1, line: 8, type: !14)
!16 = !DILocalVariable(name: "6", scope: !6, file: !1, line: 9, type: !14)
!17 = !DILocation(line: 1, column: 1, scope: !6)
!18 = !DILocation(line: 2, column: 1, scope: !6)
!19 = !DILocation(line: 3, column: 1, scope: !6)
!20 = !DILocation(line: 4, column: 1, scope: !6)
!21 = !DILocation(line: 5, column: 1, scope: !6)
!22 = !DILocation(line: 6, column: 1, scope: !6)
!23 = !DILocation(line: 7, column: 1, scope: !6)
!24 = !DILocation(line: 8, column: 1, scope: !6)
!25 = !DILocation(line: 9, column: 1, scope: !6)
!26 = !DILocation(line: 10, column: 1, scope: !6)
!27 = distinct !DISubprogram(name: "function2", linkageName: "function2", scope: null, file: !1, line: 11, type: !7, scopeLine: 11, spFlags: DISPFlagDefinition | DISPFlagOptimized, unit: !0, retainedNodes: !28)
!28 = !{129, 130, 131, 132, 133, 134}
!29 = !DILocalVariable(name: "7", scope: !27, file: !1, line: 11, type: !10)
!30 = !DILocalVariable(name: "8", scope: !27, file: !1, line: 12, type: !10)
!31 = !DILocalVariable(name: "9", scope: !27, file: !1, line: 13, type: !10)
!32 = !DILocalVariable(name: "10", scope: !27, file: !1, line: 17, type: !14)
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
    ; 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: 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:

    ; 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
    ; 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: 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, 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 <4 x double> %res
}
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]+]}}(%r{{[sb]}}p) # 16-byte Spill
  ; CHECK-NEXT:   movaps %xmm0, (%rsp) # 16-byte Spill
  ; CHECK-NEXT:   callq __gttf2
  ; CHECK-NEXT:   movl %eax, %ebx
  ; CHECK-NEXT:  .LBB0_2:
  ; CHECK-NEXT:    xorps %xmm0, %xmm0
  ; CHECK-NEXT:    addq $32, %rsp
  ; CHECK-NEXT:    .cfi_def_cfa_offset 16
  ; CHECK-NEXT:    popq %rbx
  ; CHECK-NEXT:    .cfi_def_cfa_offset 8
  ; 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:   # %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:  andps {{.*}}(%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:   # %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 0xL0000000000000000800000000000000000000000000000000000000, %mul
ret fp128 %res
}

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define internal void @innerSmall() "min-legal-vector-width"="128" {
    ret void
}

define internal void @innerLarge() "min-legal-vector-width"="512" {
    ret void
}

define internal void @innerNoAttribute() {
    ret void
}

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this
; function.
define void @outerNoAttribute() {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
    call void @innerLarge()
    ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
    call void @innerSmall()
    ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
    call void @innerNoAttribute()
    ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = [ "min-legal-vector-width"="512" ]

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; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]??]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]??]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]??]] = bitcast i32 805873688 to i32
; CHECK:   %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8*  %0
; CHECK-NEXT:  %[[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 %[[M3]] to i8*

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define void @foo_i8() {
entry:
  %0 = load volatile i8, i8* inttoptr (i32 805874688 to i8*)
  %1 = load volatile i8, i8* inttoptr (i32 805874692 to i8*)
  %2 = load volatile i8, i8* inttoptr (i32 805874719 to i8*)
  %3 = load volatile i8, i8* inttoptr (i32 805874720 to i8*)
  %4 = load volatile i8, i8* inttoptr (i32 805874727 to i8*)
  store i8 %4, i8* inttoptr(i32 805873688 to i8*)
  store i8 %3, i8* inttoptr(i32 805873719 to i8*)
  store i8 %2, i8* inttoptr(i32 805873720 to i8*)
  store i8 %1, i8* inttoptr(i32 805873727 to i8*)
  store i8* inttoptr(i32 805874800 to i8*), i8** @goo
ret void
}

; 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: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; 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*
@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
}

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 autogenerated 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
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 {
    ; CHECK-LABEL: define ([^@]+) @callee_avx512_legal512_prefer512_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, <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>* [[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_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x
    ; 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_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %tmp2, <8 x
    %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,
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_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>* %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) #1 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer512_call_avx512_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>* %arg
  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 {
    ; CHECK-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
    ; 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_avx512_legal512_prefer256_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 = 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 not promote
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>*readonly %arg1) #1 {
    ; CHECK-LABEL: define {{[^@]+}} @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64>*readonly [[ARG1:%.*]])
    ; CHECK-NEXT: bb:
    ; CHECK-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]]
    ; CHECK-NEXT: store <8 x i64> [[TMP]], <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 @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 {
    ; CHECK-LABEL: define {{[^@]+}} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (<8 x i64>* [[ARG:%.*]])
    ; CHECK-NEXT: bb:
; 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_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_legal512_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_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
  ; CHECK-LABEL: define {{[^@]+}}@callee_avx2_legal512_prefer256_call_avx2legal512_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 @avx2legal512_prefer256_call_avx2legal512_prefer256(<8 x i64>* %arg) #3 {
  ; CHECK-LABEL: define {{[^@]+}}@avx2legal512_prefer256_call_avx2legal512_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>* [[TMP2]] 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>* [[TMP2]]
  ; CHECK-NEXT:    call fastcc void @callee_avx2legal512_prefer256_call_avx2legal512_prefer256(<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_avx2legal512_prefer256_call_avx2legal512_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_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_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

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define {{[^@]+}}@scalar_avx512_legal512_prefer256_call_avx512_legal256_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 -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 dso_local 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
    %f = add <16 x i32> %d, %e
    store <16 x i32> %f, <16 x i32>* %c
}
define dso_local 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 dso_local 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>
    ; CHECK-NEXT: %5 = add nuw nsw <64 x i32> %3, %4
    %6 = add nuw nsw <64 x i32> %5, %4
    %7 = lshr <64 x i32> %6, 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 dso_local 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, %3
    %8 = trunc <64 x i32> %7 to <64 x i8>
    store <64 x i8> %8, <64 x i8>* undef, align 4
    ret void
}

define dso_local 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, 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 dso_local 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 dso_local 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: 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 dso_local 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 dso_local i32 @_Z9test_charPs_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {  
; CHECK-LABEL: _Z9test_charPs_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  
; .p2align 4, 0x90  
; .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, %ymm3  
; CHECK-NEXT: vpaddd %ymm1, %ymm3, %ymm1  
; CHECK-NEXT: addq $32, %rcx  
; CHECK-NEXT: cmpq %rcx, %rax  
; CHECK-NEXT: jne .LBB8_1  
; CHECK-NEXT: # %bb.2: # %middle.block  
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm1  
; CHECK-NEXT: vpaddd %ymm2, %ymm0, %ymm0  
; CHECK-NEXT: vpaddd %ymm0, %ymm1, %ymm0  
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm1  
; CHECK-NEXT: vpaddd %xmm1, %xmm0, %xmm0
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, <32 x i32> i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undefined
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> %bin.rdx32, <i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 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 dso_local 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:     vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:     vextracti64x4 $1, %zmm0, %ymm1
  ; CHECK-NEXT:     vpaddd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT:     vextracti128 $1, %ymm0, %xmm1
  ; CHECK-NEXT:     vpaddd %zmm1, %xmm0, %xmm0
  ; CHECK-NEXT:     vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
  ; CHECK-NEXT:     vpaddd %zmm1, %xmm0, %xmm0
  ; CHECK-NEXT:     vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
  ; 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> undef
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> undef
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> undef
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x 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> undef
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = dso_local global [1024 x i8] zeroinitializer, align 16
@b = dso_local global [1024 x i8] zeroinitializer, align 16

define dso_local i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL:  sad_16i8_256:
; CHECK:  # %bb.0: # %entry
; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT:  movq $-1024, %rax  # imm = 0xFC00
; CHECK-NEXT:  vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT:  .p2align 4, 0x90
; CHECK-NEXT:  .LBB10_1:  # %vector.body
; CHECK-NEXT:  # =>This Inner Loop Header: Depth=1
; CHECK-NEXT:  vmovdqu a+1024(%rax), %ymm2
; CHECK-NEXT:  vpsadbw b+1024(%rax), %xmm2, %xmm2
; CHECK-NEXT:  vpaddd %ymm1, %ymm2, %ymm1
; CHECK-NEXT:  addq $4, %rax
; CHECK-NEXT:  jne .LBB10_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpaddd %ymm0, %ymm1, %ymm0
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm1
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,2,3]
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[1,1,1,1]
; CHECK-NEXT:  vpaddd %ymm1, %ymm0, %ymm0
; CHECK-NEXT:  vmovd %ymm0, %eax
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

entry:
br label %vector.body

type.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %vec.phi = phi <16 x i32> [ 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 nsz <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 nsz <16 x i32> zeroinitialize, %6
  %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
  %10 = add nsz <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:
%rdx.shuf = shufflevector <16 x i32> %10, <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> %10, %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>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define dso_local 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 %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT: vpshufd {{{.*#+}}} %xmm1 = %x0m0[2,3,2,3]
  ; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT: vpshufd {{{.*#+}}} %xmm1 = %x0m0[1,1,1,1]
  ; CHECK-NEXT: vpadd %zmm1, %zmm0, %zmm0
  ; CHECK-NEXT: vmovd %zmm0, %eax
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
entry:
  br label %vector.body
vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ zeroinitializer, %entry ], [ %10, %vector.body ]
%0 = getelementptr inbounds [1024 x i8], [1024 x i8]* @a, i64 0, i64 %index
%1 = bitcast i8* %0 to <16 x i8>*
%wide.load = load <16 x i8>, <16 x i8>* %1, align 4
%2 = zext <16 x i8> %wide.load to <16 x i32>
%3 = getelementptr inbounds [1024 x i8], [1024 x i8]* @b, i64 0, i64 %index
%4 = bitcast i8* %3 to <16 x i8>*
%wide.load1 = load <16 x i8>, <16 x i8>* %4, align 4
%5 = zext <16 x i8> %wide.load1 to <16 x i32>
%6 = sub nsw <16 x i32> %2, %5
%7 = icmp sgt <16 x i32> %6, %i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1
%8 = sub nsw <16 x i32> zeroinitialzer, %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:
%rdx.shuf = shufflevector <16 x i32> %10, <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 i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef
%bin.rdx = add <16 x i32> %10, %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 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.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 4, i32 5, i32 6, i32 7, 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.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 2, i32 3, i32 4, i32 5, i32 6, i32 7, 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.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define dso_local 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
define dso_local 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, 32(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
%mask = icmp s gt <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 dso_local 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: vshiftrw $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 s lt <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
}
store <16 x double> %1, <16 x double>* %res
ret void
}

define dso_local 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:    vcvtq2pd %ymm0, %zmm1
; CHECK-NEXT:    vextractf64x4 $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, zeroinitializer
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

#define dso_local 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:    vpmovm2d %k0, %k1
; CHECK-NEXT:    kshiftrw $8, %k0, %k1
; CHECK-NEXT:    vpmovm2d %k1, %ymmm0
; CHECK-NEXT:    vpsrlq $31, %ymmm0, %ymmm0
; CHECK-NEXT:    vcvtq2ps %ymmm0, %ymmm0
; CHECK-NEXT:    vpmovm2d %k0, %ymmm0
; CHECK-NEXT:    vpsrlq $31, %ymmm0, %ymmm1
; CHECK-NEXT:    vcvtq2ps %ymmm1, %ymmm1
; CHECK-NEXT:    vmovaps %ymmm1, (%rdi)
; CHECK-NEXT:    vmovaps %ymmm0, 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 dso_local 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 %ymmm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpmovw2m %ymmm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpmovw2m %ymmm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpmovw2m %ymmm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpmovw2m %ymmm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpmovw2m %ymmm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpmovw2m %ymmm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpmovw2m %ymmm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
; CHECK-NEXT:    vpmovw2m %ymmm0, %k0
; CHECK-NEXT:    vpmovm2d %k0, %zmm0
;
define dso_local 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 float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define dso_local 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 float>
    store <16 x float> %1, <16 x float>* %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:    vpsldq $31, %ymm1, %ymm1
  ; CHECK-NEXT:    vpmovd2m %ymm1, %k1
  ; CHECK-NEXT:    vcvttps2dq 32(%rdi), %ymm1
  ; CHECK-NEXT:    vpsldq $31, %ymm1, %ymm1
  ; CHECK-NEXT:    vpmovd2m %ymm1, %k1
  ; CHECK-NEXT:    vunpckbw %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> zero initializer
  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:    vpsldq $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> zero initializer
  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:    vpsldq $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> zero initializer
  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" {  
  %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 dso_local void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {  
  %a = load <64 x i8>* %ptr, <64 x i8>* %ptr  
  %mask = fptosi <64 x i8> %a to <64 x i1>  
  %select = select <64 x i1> %mask, <64 x i8> %passthru, <64 x i8> zeroinitializer  
  ret <64 x i8> %select  
}
; 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:   vpunpckhlw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:   vpand %ymm5, %ymm3, %ymm3
; CHECK-AVX512-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-AVX512-NEXT:   vpunpckhlw %ymm4, %ymm0, %ymm0
; CHECK-AVX512-NEXT:   vpunpckhbw {{.*#+}} 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:   vpnullw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:   vpnullw %ymm3, %ymm4, %ymm3
; CHECK-AVX512-NEXT:   vperm2b %ymm3, %ymm4, %ymm3
; 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[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:   vpunpckhlb {{.*#+}} ymm5 =
ymm5[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-VBMI-NEXT:   vmovdqa %ymm4, 0(%rdx)
; CHECK-VBMI-NEXT:   vmovdqa %ymm1, 32(%rdx)
; CHECK-VBMI-NEXT:   vzeroupper
; CHECK-VBMI-NEXT:   retq
define dso_local void @mul512(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="512" {
  ; CHECK-AVX512-LABEL: mul512:  
  ; CHECK-AVX512:       # %bb.0:
  ; CHECK-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
  ; CHECK-AVX512-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
  ; CHECK-AVX512-NEXT: vzeroupper
  ; CHECK-AVX512-NEXT: retq
}
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```
; 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" {
  # %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 i32> %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:
  # %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:  vpmovqd %ymm0, %xmm0
  CHECK-NEXT:  vpmovqd %ymm1, %xmm1
```

```
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:  vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovdb %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovdb %ymm3, %xmm3
    ; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
    ; CHECK-NEXT:  vzeroupper
    ; 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 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:  vmovdqa 64(%rdi), %ymm2
    ; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
    ; CHECK-NEXT:  vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovdb %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovdb %ymm3, %xmm3
    ; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
    ; 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:  vmovdqa 64(%rdi), %ymm2
    ; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
    ; CHECK-NEXT:  vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovdb %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovdb %ymm3, %xmm3
    ; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
    ; 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_v8i32_v8i8(<8 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i32_v8i8:
    ; 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:  vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovdb %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovdb %ymm3, %xmm3
    ; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
    ; 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:  vmovdqa 64(%rdi), %ymm2
    ; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
    ; CHECK-NEXT:  vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovdb %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovdb %ymm3, %xmm3
    ; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0]
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <16 x i64>, <16 x i64>* %x
    %b = trunc <16 x i64> %a to <16 x i8>
    ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i32_v8i8(<8 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i32_v8i8:
    ; 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:  vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovdb %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovdb %ymm3, %xmm3
    ; CHECK-NEXT:  vpunpcklqdq {{.*#*}} xmm0 = xmm0[0],xmm1[0]
    ; 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:  vmovdqa 64(%rdi), %ymm2
    ; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
    ; CHECK-NEXT:  vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovdb %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovdb %ymm3, %xmm3
    ; CHECK-NEXT:  vpunpcklqdq {{.*#*}} xmm0 = xmm0[0],xmm1[0]
    ; CHECK-NEXT:  vzeroupper
    ; CHECK-NEXT:  retq
    %a = load <16 x i64>, <16 x i64>* %x
    %b = trunc <16 x i64> %a to <16 x i8>
    ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i32_v8i8(<8 x i32>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i32_v8i8:
    ; 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:  vpmovdb %ymm0, %xmm0
    ; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
    ; CHECK-NEXT:  vpmovdb %ymm2, %xmm2
    ; CHECK-NEXT:  vpmovdb %ymm3, %xmm3
    ; CHECK-NEXT:  vpunpcklqdq {{.*#*}} xmm0 = xmm0[0],xmm1[0]
    ; 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 i16> @trunc_v8i64_v8i16(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: trunc_v8i64_v8i16:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpsrloq $48, 32(%rdi), %ymm0
    ; CHECK-NEXT:    vpsrloq $48, (%rdi), %ymm1
    ; CHECK-NEXT:    vpackusdq %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vpermq {{.*#*+}} ymm0 = ymm0[0,2,1,3]
    ; 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
}

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), %ymm0
    ; CHECK-NEXT:    vpsrlq $48, (%rdi), %ymm1
    ; CHECK-NEXT:    vpackusdw %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT:    vpermq {{.*#*+}} ymm0 = ymm0[0,2,1,3]
    ; 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), %ymm0
    ; CHECK-NEXT:    vmovdqa [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, 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:  vpackuswb %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:  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 i64> %a, <i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16, i64 16>
%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:
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: vpsrlw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT: vpsrlw (%rdi), %ymm1
; CHECK-AVX512-NEXT: vpackuswb %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]
; CHECK-VBMI-NEXT: vpermi2b 32(%rdi), %ymm1, %ymm0
; CHECK-VBMI-NEXT: retq
%
a = load <16 x i32>, <16 x i32>* %x
%b = ashr <32 x i16> %a, <32 x i16>* %x
%c = trunc <32 x i16> %b
ret <32 x i8> %c
}

define dso_local 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: vpshufd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT: vpmovzxwq {{.*#+}} ymm2 = xmm2[0],zero,zero,xmm2[1],zero,zero,xmm2[2],zero,zero,xmm2[3],zero,zero
; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT: vpshufd {{.*#+}} xmm3 = xmm1[2,3,2,3]
define dso_local 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: vpcmpeqw %xmm1, %xmm0, %k1

define dso_local 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, %ymm1
; CHECK-NEXT: vpsubfd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT: vpmovsxbw %xmm1, %ymm2
; CHECK-NEXT: vextracti128 $1, %ymm1, %xmm1
; CHECK-NEXT: vpsubfd {{.*#+}} xmm3 = xmm1[2,3,2,3]
; CHECK-NEXT: vpmovsxbw %xmm0, %ymm3
; CHECK-NEXT: vpmovsxbw %ymm0, %ymm1
; CHECK-NEXT: vpsubfd {{.*#+}} xmm2 = xmm1[2,3,2,3]
; CHECK-NEXT: vpmovsxbw %xmm3, %ymm3
; CHECK-NEXT: vpmovsxbw %ymm2, %ymm1
; 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 dso_local 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: vpmovzwxq {{.*#+}} ymm3 =
+ xmm3[0],zero,zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT: vpmovzwxq {{.*#+}} ymm1 =
+ xmm1[0],zero,zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT: vpmovzxbq {{.*#+}} ymm0 =
+ xmm0[0],zero,zero,zero,xmm0[1],zero,zero,zero,xmm0[2],zero,zero,zero,xmm0[3],zero,zero,zero
; CHECK-NEXT: vmovdqa %ymm0, (%rdi)
; CHECK-NEXT: vmovdqa %ymm1, 64(%rdi)
; CHECK-NEXT: vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT: vmovdqa %ymm2, 32(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%a = zext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqas64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqas64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdq %ymm2, (%rdx)
; CHECK-NEXT:  vmovdq %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 i1> %a, <8 x i64> %x, <8 x i64> %y
store <8 x i64> %b, <8 x i64>* %r
ret void
}
define dso_local 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:  vmovdq (%rsi), %ymm2
; CHECK-NEXT:  vmovdq 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqd %ymm1, %ymm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
; CHECK-NEXT:  vmovdqas64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqas64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdq %ymm2, (%rdx)
; CHECK-NEXT:  vmovdq %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 dso_local 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:  vmovdq (%rsi), %ymm2
; CHECK-NEXT:  vmovdq 32(%rsi), %ymm3
; CHECK-NEXT:  vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT:  kshiftrwb $8, %k1, %k2
; CHECK-NEXT:  vmovdqas64 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:  vmovdqas64 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:  vmovdq %ymm2, (%rdx)
; CHECK-NEXT:  vmovdq %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
}
```
%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 dso_local 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
    ; 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, i32 255>
%c = select <16 x i1> %b, <16 x i32> %a, <16 x i32> <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>
%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>
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 dso_local 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, %k1
    ; CHECK-NEXT: kshiftrq $63, %k0, %k2
    ; CHECK-NEXT: kshiftrq $62, %k2, %k2
    ; CHECK-NEXT: korq %k2, %k1, %k1
    ; CHECK-NEXT: movq $-5, %rax

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; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $3, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $61, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-9, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $2, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $60, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-17, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $5, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $59, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-33, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $4, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $58, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-65, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $7, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $57, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-129, %rax
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $9, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $55, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $6, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $56, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
; CHECK-NEXT:    movq $-257, %rax # imm = 0xFEFF
; CHECK-NEXT:    kmovq %rax, %k2
; CHECK-NEXT:    kandq %k2, %k1, %k1
; CHECK-NEXT:    kshiftrd $9, %k0, %k2
; CHECK-NEXT:    kshiftlq $63, %k2, %k2
; CHECK-NEXT:    kshiftrq $55, %k2, %k2
; CHECK-NEXT:    korq %k2, %k1, %k1
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; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $.-55337, %rax # imm = 0xFFFEFFFF
; 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 = 0xFFFFDFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $16, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $46, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $.-262145, %rax # imm = 0xFFBBFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $19, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $45, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $.-524289, %rax # imm = 0xFF77FFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $18, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $44, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $.-1048577, %rax # imm = 0xFEFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $21, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $43, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $.-2097153, %rax # imm = 0xFDFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $20, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $42, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $.-4194305, %rax # imm = 0xFBFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k1, %k1
; CHECK-NEXT:  kshiftrd $23, %k0, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; 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 $-137438953473, %rax # imm = 0xFFFFFFFFFFFFFFFF
; 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:  movabsq $-274877906945, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $7, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $25, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-549755813889, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $6, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $24, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-1099511627777, %rax # imm = 0xFFFFFFEFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $9, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $23, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-2199023255553, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $8, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $22, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4398046511105, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $11, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $21, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-8796093022209, %rax # imm = 0xFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2

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; 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 = 0xFFF7FFFFFFFFFFFFF
; 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 $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 = 0xFEFFFFFFFFFFFFFF
; 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
define dso_local 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: vmovdqa (%rsi), %ymm0
    ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
    ; CHECK-NEXT: vpcmppsq 32(%rdi), %ymm1, %ymm1
    ; CHECK-NEXT: vpsrldq $63, %ymm1, %ymm1
    ; CHECK-NEXT: vpsrldq $63, %ymm0, %ymm0
    ; CHECK-NEXT: vmovdq %ymm0, (%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 = zext <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 =
               xmm1[0],zero,xmm1[1],zero,xmm1[2],zero,xmm1[3],zero,xmm1[4],zero,xmm1[5],zero,xmm1[6],zero,xmm1[7],zero,
               xmm1[8],zero,xmm1[9],zero,xmm1[10],zero,xmm1[11],zero,xmm1[12],zero,xmm1[13],zero,xmm1[14],zero,xmm
               m1[15],zero
    ; CHECK-NEXT: vpmovzxbw {{.*#+}} ymm0 =
               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,xmm
               m0[15],zero
    ; CHECK-NEXT: vpsllwv %ymm1, %ymm0, %ymm1
    ; CHECK-NEXT: vpmovzxbw {{.*#+}} ymm2 =
               xmm2[0],zero,xmm2[1],zero,xmm2[2],zero,xmm2[3],zero,xmm2[4],zero,xmm2[5],zero,xmm2[6],zero,xmm2[7],zero,
               xmm2[8],zero,xmm2[9],zero,xmm2[10],zero,xmm2[11],zero,xmm2[12],zero,xmm2[13],zero,xmm2[14],zero,xmm
               m2[15],zero
    ; CHECK-NEXT: vpsrlwv %ymm2, %ymm0, %ymm0
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: vpsrlw $4, %ymm0, %ymm3  
    ; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3  
    ; CHECK-NEXT: vpsllw $5, %ymm1, %ymm1  
    ; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0  
    ; CHECK-NEXT: vpsrlw $6, %ymm0, %ymm3  
    ; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm2, %ymm3  
    ; CHECK-NEXT: vpaddb %ymm1, %ymm1  
    ; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0  
    ; CHECK-NEXT: vpsrlw $7, %ymm0, %ymm2  
    ; CHECK-NEXT: vpaddb %ymm0, %ymm0  
    ; CHECK-NEXT: vpternlogq $248, {{.*}}(%rip), %ymm2, %ymm3  
    ; CHECK-NEXT: vpaddb %ymm1, %ymm1  
    ; CHECK-NEXT: vpblendvb %ymm1, %ymm3, %ymm0, %ymm0  
    ; CHECK-NEXT: retq  
    %b8 = sub <16 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b  
    %shl = shl <16 x i8> %a, %b  
    %lshr = lshr <16 x i8> %a, %b8  
    %or = or <16 x i8> %shl, %lshr  
    ret <16 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-AVX512-LABEL: splatvar_rotate_v32i8:  
    ; CHECK-AVX512: # %bb.0:  
    ; CHECK-AVX512-NEXT: vpbroadcastb %xmm1, %xmm1  
    ; CHECK-AVX512-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1  
    ; CHECK-AVX512-NEXT: vpmovzxbq {{.*#+}} xmm2 =  
    ; CHECK-AVX512-NEXT: xmm1[0],zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero  
    ; CHECK-AVX512-NEXT: vpaddb %ymm0, %ymm0, %ymm3  
    ; CHECK-AVX512-NEXT: vpsllw %xmm2, %ymmm0, %ymmm3  
    ; CHECK-AVX512-NEXT: vpmovzxbq {{.*#+}} xmm4 =  
    ; CHECK-AVX512-NEXT: [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]  
    %b8 = sub <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %b  
    %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> @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: vpbroadcastb %xmm1, %xmm1
    ; CHECK-AVX512-NEXT: vpand {{.*}}(%rip), %xmm1, %xmm1
    ; CHECK-AVX512-NEXT: vpmovzxbq {{.*#+}} xmm2 =
    ; CHECK-AVX512-NEXT: vpsllw %xmm2, %ymm0, %ymm3
    ; CHECK-AVX512-NEXT: vpcmpeqd %xmm4, %xmm4, %xmm4
    ; CHECK-AVX512-NEXT: vpsllw %xmm2, %xmm4, %xmm2
    ; CHECK-AVX512-NEXT: vpbroadcastb %xmm2, %ymm2
    ; CHECK-AVX512-NEXT: vpand %ymm2, %ymm3, %ymm2
    ; CHECK-AVX512-NEXT: vmovdqa {{.*#+}} ymm1 =
    ; CHECK-AVX512-NEXT: vpermb %ymm0, %ymm1, %ymm0
    ; CHECK-AVX512-NEXT: vpternlogq $236, %ymm3, %ymm2, %ymm0
    ; CHECK-AVX512-NEXT: retq
    ;
}
CHECK-AVX512-NEXT:  vpsllw $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:  vpblendvb %ymm2, %ymm1, %ymm0, %ymm1
CHECK-AVX512-NEXT:  vpsllw $2, %ymm1, %ymm3
CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpaddb %ymm1, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:  vpblendvb %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpaddb %ymm1, %ymm1, %ymm0
CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-AVX512-NEXT:  vpblendvb %ymm3, %ymm1, %ymm1
CHECK-AVX512-NEXT:  vpxor %xmm2, %xmm2, %xmm2
CHECK-AVX512-NEXT:  vpunpckhbw {{.*#+}} ymm3 = 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[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:  vpsllw {{.*}}(%rip), %ymm3, %ymm3
CHECK-AVX512-NEXT:  vpsrlw $8, %ymm3, %ymm3
CHECK-AVX512-NEXT:  vpunpcklbw {{.*#+}} 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:  vpsllw {{.*}}(%rip), %ymm0, %ymm0
CHECK-AVX512-NEXT:  vpsrlw $8, %ymm0, %ymm0
CHECK-AVX512-NEXT:  vpckuswb %ymm3, %ymm0, %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:  vpsllw $4, %ymm0, %ymm1
CHECK-VBMI-NEXT:  vpand {{.*}}(%rip), %ymm1, %ymm1
CHECK-VBMI-NEXT:  vbroadcasti128 {{.*#+}} ymm2 = [8192,24640,41088,57536,57344,41152,24704,8256,8192,24640,41088,57536,57344,41152,24704,8256]
CHECK-VBMI-NEXT:  # ymm2 = mem[0,1,0,1]
CHECK-VBMI-NEXT:  vpblendvb %ymm2, %ymm1, %ymm0, %ymm1
CHECK-VBMI-NEXT:  vpsllw $2, %ymm1, %ymm3
CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-VBMI-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-VBMI-NEXT:  vpaddb %ymm1, %ymm1, %ymm1
CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-VBMI-NEXT:  vpblendvb %ymm2, %ymm3, %ymm1, %ymm1
CHECK-VBMI-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
CHECK-VBMI-NEXT:  vpblendvb %ymm3, %ymm1, %ymm1
CHECK-VBMI-NEXT:  vpxor %xmm2, %xmm2, %xmm2
CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm3 =
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], ymm2[26], ymm0[27], ymm2[27], ymm0[28], ymm2[28], ymm0[29], ymm2[29], ymm0[30], ymm2[30], ymm0[31], ymm2[31]

; CHECK-VBMI-NEXT: vpsllw {.*}(%rip), %ymm3, %ymm3
; CHECK-VBMI-NEXT: vpunpcklbw {.*#+} 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-VBMI-NEXT: vpsllw {.*}(%rip), %ymm0, %ymm0
; CHECK-VBMI-NEXT: vmovdqa {.*#+} ymm2 = [1,3,5,7,9,11,13,15,33,35,37,39,41,43,45,47,17,19,21,23,25,27,29,31,49,51,53,55,57,59,61,63]
; CHECK-VBMI-NEXT: vpermi2b %ymm3, %ymm0, %ymm2
; CHECK-VBMI-NEXT: vpor %ymm2, %ymm1, %ymm0
; CHECK-VBMI-NEXT: retq

%shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31>
%lshr = lshr <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or

define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
 ; CHECK-LABEL: splatconstant_rotate_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:  retq
 %shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31>
%lshr = lshr <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31>
%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:  retq
 %shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31>
%lshr = lshr <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}

define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
 ; CHECK-LABEL: splatconstant_rotate_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:  retq
 %shl = shl <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31>
%lshr = lshr <32 x i8> %a, <i8 0, i8 1, i8 2, i8 3, i8 4, i8 5, i8 6, i8 7, i8 8, i8 9, i8 10, i8 11, i8 12, i8 13, i8 14, i8 15, i8 16, i8 17, i8 18, i8 19, i8 20, i8 21, i8 22, i8 23, i8 24, i8 25, i8 26, i8 27, i8 28, i8 29, i8 30, i8 31>
%or = or <32 x i8> %shl, %lshr
ret <32 x i8> %or
}
%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, 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>
%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>
%or = or <32 x i8> %lmask, %rmask
ret <32 x i8> %or

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; RUN: llc -march=hexagon -hexagon-hvx-widen=32 < %s | FileCheck %s

; Truncating a type-to-be-widenened to a legal type (v8i8).
; Check that this compiles successfully.
; CHECK-LABEL: f0:
; CHECK: dealloc_return

target triple = "hexagon"

define dllexport void @f0(i8* %a0) local_unnamed_addr #0 {
b0:
%v0 = load i8, i8* undef, align 1
%v1 = zext i8 %v0 to i16
%v2 = add i16 0, %v1
%v3 = icmp sgt i16 %v2, 1
%v4 = select i1 %v3, i16 %v2, i16 1
%v5 = udiv i16 -32768, %v4
%v6 = zext i16 %v5 to i32
%v7 = insertelement <8 x i32> undef, i32 %v6, i32 0
%v8 = shufflevector <8 x i32> %v7, <8 x i32> undef, <8 x i32> zeronitializer
%v9 = load <8 x i16>, <8 x i16>* undef, align 2
%v10 = sext <8 x i16> %v9 to <8 x i32>
%v11 = mul nsw <8 x i32> %v9, %v10
%v12 = add nsw <8 x i32> %v11, <i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384, i32 16384>
%v13 = lshr <8 x i32> %v12, <i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15, i32 15>
%v14 = trunc <8 x i32> %v13 to <8 x i8>
%v15 = getelementptr inbounds i8, i8* %a0, i32 undef
%v16 = bitcast i8* %v15 to <8 x i8>*
store <8 x i8> %v14, <8 x i8>* %v16, align 1
ret void
}

attributes #0 = { "target-features"="+hvx,+hvx-length128b" }

; RUN: llc -march=hexagon-+hvx < %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:
  br label %while.body

  while.body:
  br label %while.body

  %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:
  unreachable

  sw.bb3.i:
  unreachable

  exit:
  switch i32 undef, label %exit.2 [ i32 1, label %sw.bb.i17 i32 2, label %sw.bb3.i20 ]

  sw.bb.i17:
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

  sw.bb3.i20:
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

  exit.2:
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body

  while.end:
  ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; NOTE: Assertions have been autogenerated by utils/update_test_checks.py UTC_ARGS: --function-signature --check-attributes
; RUN: opt -attributor-enable-new-pm=0 -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM,IS__TUNIT____,IS________OPM,IS__TUNIT_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=3 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_OPM,NOT_CGSCC_NPM,NOT_TUNIT_OPM,IS__TUNIT____,IS________OPM,IS__TUNIT_NPM
; RUN: opt -attributor-cgsc -enable-new-pm=0 -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_NPM,IS__CGSCC____,IS________OPM,IS__CGSCC_OPM
; RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgsc -attributor-manifest-internal -attributor-annotate-decl-cs -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_TUNIT_NPM,NOT_TUNIT_OPM,NOT_CGSCC_OPM,IS__CGSCC____,IS________NP,IS__CGSCC_NPM

; Test that we only promote arguments when the caller/callee have compatible function attributes.

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 {
    ...
    %arg = load i64, i64* %ARG, align 64
    store i64 %arg, i64* %ARG, align 64
    ret void
    ...
}

; IS______NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS______NPM-LABEL: define
{(^[@]+)} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS______NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64))
(ARG:.*), <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:.*]]) [[ATTR0:.*]] {
; IS______NPM-NEXT: bb:
; IS______NPM-NEXT: [[TMP:.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; IS______NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS______NPM-NEXT: ret void
;
; IS______NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS______NPM-LABEL: define
{(^[@]+)} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS______NPM-SAME: (<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64))
(ARG:.*), <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:.*]]) [[ATTR0:.*]] {
; IS______NPM-NEXT: bb:
; IS______NPM-NEXT: [[ARG1_PRIV:.*]] = alloca <8 x i64>, align 64
; IS______NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS______NPM-NEXT: [[TMP:.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS______NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS________NPM-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 {
 ; IS______TUNIT_OPM: Function Attrs: argmemonly inlinehint noreferecse nosync nounwind uwtable willreturn
 ; IS______TUNIT_OPM-LABEL: define ([[^@]+]) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
 ; IS______TUNIT_OPM-SAME: (8 x i64)* noreferecse writeonly [[ARG:%.*]] [[ATTR0:#.*]]
 ; 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 nofree noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
 ; IS______TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>*, noreferecse noundef nonnull writeonly align dereferenceable(64) [[TMP2]], <8 x i64>*, noreferecse noundef nonnull readonly align dereferenceable(64) [[TMP]]) [[ATTR7:#.*]]
 ; 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: Function Attrs: argmemonly inlinehint noreferecse nosync nounwind uwtable willreturn
 ; IS______TUNIT_NPM-LABEL: define ([[^@]+]) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
 ; IS______TUNIT_NPM-SAME: (8 x i64)* noreferecse writeonly [[ARG:%.*]] [[ATTR0:#.*]]
 ; 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 nofree noundef nonnull writeonly align dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6:#.*]]
 ; IS______TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
 ; IS______TUNIT_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>*, noalias nocapture noreferecse noundef nonnull writeonly align dereferenceable(64) [[TMP2]], <8 x i64>* [[TMP0]]) [[ATTR7:#.*]]
 ; 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: Function Attrs: argmemonly inlinehint noreferecse nosync nounwind uwtable willreturn
 ; IS______CGSCC_OPM-LABEL: define ([[^@]+]) @avx512_legal512_prefer512_call_avx512_legal512_prefer512
 ; IS______CGSCC_OPM-SAME: (8 x i64)* noreferecse noundef writeonly align dereferenceable(64) [[ARG:%.*]] [[ATTR0:#.*]]
 ;

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)* nocapture noreturn rewriteonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture noreturn readonly align 64 dereferenceable(64) [[ARG1:%.*]]) [[ATTR1:#.*]] {  
  %tmp = load <8 x i64>, <8 x i64>* [[ARG]], align 64
  store <8 x i64> %tmp, <8 x i64>* [[ARG]], align 64
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* nocapture noreturn rewriteonly align 64 dereferenceable(64) [[ARG:*.%]], <8 x i64>* [[TMP0:%.*/]] [[ATTR1:#.*]] {  
  %tmp = load <8 x i64>, <8 x i64>* [[ARG]], align 64
  store <8 x i64> %tmp, <8 x i64>* [[ARG]], align 64
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* nocapture noreturn rewriteonly align 64 dereferenceable(64) [[ARG1:*.%]], <8 x i64>* [[TMP0:*.%]] [[ATTR1:#.*]] {
  %tmp = load <8 x i64>, <8 x i64>* [[ARG]], align 64
  store <8 x i64> %tmp, <8 x i64>* [[ARG]], align 64
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* nocapture noreturn rewriteonly align 64 dereferenceable(64) [[ARG:*.%]], <8 x i64>* [[TMP0:*.%]] [[ATTR1:#.*]] {
  %tmp = load <8 x i64>, <8 x i64>* [[ARG]], align 64
  store <8 x i64> %tmp, <8 x i64>* [[ARG]], align 64
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(8 x i64)* nocapture noreturn rewriteonly align 64 dereferenceable(64) [[ARG:*.%]], <8 x i64>* [[TMP0:*.%]] [[ATTR1:#.*]] {
  %tmp = load <8 x i64>, <8 x i64>* [[ARG]], align 64
  store <8 x i64> %tmp, <8 x i64>* [[ARG]], align 64
  ret void
}
; IS__TUNIT_NPM: Function Attrs: argmemonly inlinehint norefree nosync nounwind uwtable willreturn
; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture norefree writeonly [[ARG:%.*]] [[ATTR1:#.*]])
 ; 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 norefree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
 ; IS__TUNIT_NPM-NEXT: [[TMP0:.%]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
 ; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture norefree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]] [[ATTR7]]
 ; IS__TUNIT_NPM-NEXT: [[TMP4:.%]] = load <8 x i64>, <8 x i64>* [[ARG]], align 2
 ; IS__TUNIT_NPM-NEXT: ret void
 ;
; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint norefree nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture norefree writeonly align 2 dereferenceable(64)
[[ARG:%.*]] [[ATTR1:#.*]])
; 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 norefree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT: [[TMP0:.%]] = 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: Function Attrs: argmemonly inlinehint norefree nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture norefree writeonly align 2 dereferenceable(64)
[[ARG:%.*]] [[ATTR1:#.*]])
; 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 norefree noundef nonnull writeonly
align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_NPM-NEXT: [[TMP0:.%]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture norefree
noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]] [[ATTR7]]
; IS__CGSCC_NPM-NEXT: [[TMP4:.%]] = load <8 x i64>, <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

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noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]] [[ATTR7]]
; 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_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>* readonly %arg1) #1 {
  
  bb:
  %tmp = load <8 x i64>, %arg
  store <8 x i64> %tmp, %arg
  ret void
}

; IS_______OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_______OPM-LABEL: define
{{[^\@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS_______OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.*]], <8 x i64>* nocapture noreference noundef nonnull writeonly align 64 dereferenceable(64) [[ARG1:.*]]) [[ATTR1]] {
  
  bb:
  %tmp = alloca <8 x i64>, align 64
  %tmp2 = alloca <8 x i64>, align 64
  %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
}

; IS_______NPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
; IS_______NPM-LABEL: define
{{[^\@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS_______NPM-SAME: (<8 x i64>* noalias nocapture noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:.*]], <8 x i64>* [[TMP0:.*]]) [[ATTR1]] {
  
  bb:
  %tmp = alloca <8 x i64>, align 64
  %tmp2 = alloca <8 x i64>, align 64
  %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

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
    ; IS__UNIT_OPM: Function Attrs: argmemonly inlinehint noref nofree norecurse nosync nounwind uwtable willreturn
    ; IS__UNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture norefwriteonly [[ARG:%.*]]) [[ATTR0]] {
    ; IS__UNIT_OPM-NEXT: 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* nocapture noref nonnull writeonly
        align 64 dereferenceable(64) [TMP3], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
    ; IS__UNIT_OPM-NEXT: call fastcc void
    @ callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* nocapture noref nonnull writeonly
    align 64 dereferenceable(64) [TMP2], <8 x i64>* nocapture noref nonnull readonly
    align 64 dereferenceable(64) [TMP]) [[ATTR7]]
    ; IS__UNIT_OPM-NEXT: [TMP4=%.*] = load <8 x i64>, <8 x i64>* [TMP2], align 64
    ; IS__UNIT_OPM-NEXT: ret void
    ;
    ; IS__UNIT_NPM: Function Attrs: argmemonly inlinehint noref nofree norecurse nosync nounwind uwtable willreturn
    ; IS__UNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture norefwriteonly [[ARG:%.*]]) [[ATTR0]] {
    ; IS__UNIT_NPM-NEXT: bb:
        [TMP=%.*] = alloca <8 x i64>, align 32
        [TMP2=%.*] = alloca <8 x i64>, align 32
        [TMP3=%.*] = bitcast <8 x i64>* [TMP] to i8*
        [TMP0=%.*] = load <8 x i64>, <8 x i64>* [TMP], align 64
        call fastcc void
    @ callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture noref nonnull writeonly
    align 64 dereferenceable(64) [TMP0], <8 x i64>* [TMP0]) [[ATTR7]]
    ; IS__UNIT_NPM-NEXT: [TMP4=%.*] = load <8 x i64>, <8 x i64>* [TMP0], align 64
    ; IS__UNIT_NPM-NEXT: ret void
    ;
    ; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint noref nofree norecurse nosync nounwind uwtable willreturn
    ; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
    ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture noref nonnull writeonly align 2 dereferenceable(64)
    [[ARG:%.*]]) [[ATTR0]] {
    ; IS__CGSCC_OPM-NEXT: 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* nocapture noref noundef nonnull writeonly
    align 64 dereferenceable(64) [TMP3], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
    ; IS__CGSCC_OPM-NEXT:
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) #0 {
  %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* %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>* %arg2, <8 x i64>* %arg3) #0 {
  %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* %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>* %arg3, align 2
  ret void
}

; IS________OPM: Function Atts: argmemonly inlinehint norecourse nosync nounwind uitable willreturn
; IS________OPM-LABEL: define ((([@*+]))) @callee_avx512 Legal512_prefer512_call_avx512 Legal512_prefer256
; IS________OPM-SAME: (<8 x i64>* nocation capture noreturn nonnull readonly align 64 dereferenceable(64)) [[ARG:%.*]], <8 x i64>* nocation capture noreturn nonnull readonly align 64 dereferenceable(64) [[ARG:%.*]] [[ATTR0]]
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<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_legal512_prefer512(<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_legal512_prefer512(<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
}
%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 {
    ;
    ; IS________OPM: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    ; IS________OPM-LABEL: define
    {([^@]+) } @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; IS________OPM-SAME: (<8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture noreturn nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]]) [[ATTR1]] {
    ; IS________OPM-NEXT: 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: Function Attrs: argmemonly inlinehint nofree norecurse nosync nounwind uwtable willreturn
    ; IS________TUNIT_OPM-LABEL: define {([^@]+) } @avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; IS________TUNIT_OPM-SAME: (<8 x i64>* noalias nocapture noreturn nondef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture noreturn nondef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]]) [[ATTR2:#.*]] {
    ; IS________TUNIT_OPM-NEXT: bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
    }
}
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #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_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 {

  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
}
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  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_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* noalias nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]]) [[ATTR2:#.*]] {
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg1
  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>]* nocapture nofree noundef noalias noaligned nononnull writeonly align 64 dereferenceable(64) [[T][MP]]), <8 x i64>)* nocapture nofree noundef noalias nononnull writeonly align 64 dereferenceable(64) [[T][MP]]), <8 x i64>)* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG: %.*]] [[ATTR1]]

; IS__CGSCC_NPM: Function Attrs: argnemonly inlineinhint noref norec nofree nosync nounwind uwtbl willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>]* nocapture nofree noundef noalias noaligned nononnull writeonly align 64 dereferenceable(64) [[T][MP]]), <8 x i64>)* nocapture nofree noundef noalias nononnull writeonly align 64 dereferenceable(64) [[T][MP]]), <8 x i64>)* nocapture nofree noundef noalias nononnull writeonly align 64 dereferenceable(64) [[T][MP]]), <8 x i64>)* nocapture nofree noundef nonnull writeonly align 2 dereferenceable(64) [[ARG: %.*]] [[ATTR1]]

; 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* %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
function callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256 {
    %arg = load i64, i64* %arg1, align 64
    store i64 %arg, i64* %arg, align 64
    ret void
}

function avx2_legal256_prefer256_call_avx2_legal512_prefer256 {
    %arg = load i64, i64* %arg1, align 64
    store i64 %arg, i64* %arg, align 64
    ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256 {
    %arg = load i64, i64* %arg1, align 64
    store i64 %arg, i64* %arg, align 64
    ret void
}

@avx2_legal256_prefer256_call_avx2_legal512_prefer256 {
    %arg = load i64, i64* %arg1, align 64
    store i64 %arg, i64* %arg, align 64
    ret void
}

call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [%ARG1:%.*], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [%ARG:%.*]) [[ATTR3:#.*]]

call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [%ARG2:%.*], <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [%ARG1:%.*]) [[ATTR3:#.*]]

call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) %arg1, <8 x i64>* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) [%ARG0:%.*]) [[ATTR3:#.*]]

call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) %arg2, <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [%ARG1:%.*]) [[ATTR3:#.*]]

call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) %arg2, <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [%ARG1:%.*]) [[ATTR3:#.*]]

call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) %arg1, <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [%ARG0:%.*]) [[ATTR3:#.*]]

call void @llvm.memset.p0i8.i64(i8* nocapture nofree noundef nonnull writeonly align 64 dereferenceable(64) %arg1, <8 x i64>* nocapture nofree noundef nonnull readonly align 64 dereferenceable(64) [%ARG0:%.*]) [[ATTR3:#.*]]
dereferenceable(64) [[TMP]]) [[ATTR7]]
; IS__UNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_OPM-NEXT:  ret void
;
; IS__UNIT_NPM: Function Attrs: argmemonly inlinehint noreturn noderecurse nosync nounwind uwtable willreturn
; IS__UNIT_NPM-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
   [[<8 x i64>* nocapture noreturn writeonly [[ARG:%.*]]]] [[ATTR4:#.*]]
   [[UNIT_NPM-NEXT: 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* nocapture noreturn noalias noundef nonnull
   dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
     [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
     call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
   <8 x i64>* noalias nocapture noreturn nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
     [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
     store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
     [[UNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint noreturn noderecurse nosync nounwind uwtable willreturn
; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
   [[<8 x i64>* nocapture noreturn writeonly align 2 dereferenceable(64)
   [[ARG:%.*]]]] [[ATTR4:#.*]]
   [[UNIT_OPM-NEXT: 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* nocapture noreturn noalias noundef nonnull
   dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
     call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
   <8 x i64>* noalias nocapture noreturn nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
     [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
     store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
     [[UNIT_OPM-NEXT: ret void

; IS__CGSCC_NPM: Function Attrs: argmemonly inlinehint noreturn noderecurse nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
   [[<8 x i64>* nocapture noreturn writeonly align 2 dereferenceable(64)
   [[ARG:%.*]]]] [[ATTR4:#.*]]
   [[UNIT_NPM-NEXT: bb:
     [[TMP:%.*]] = alloca <8 x i64>, align 32
     [[TMP2:%.*]] = alloca <8 x i64>, align 32
     [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
%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__UNIT_OPM: Function Attrs: argmemonly inlinehint noreturn nocall nodelay norecurse noundef nounwind weavetable willreturn
  ; IS__UNIT_OPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture noreturn writeonly ![ARG:%.*]) ![ATTR3:#.*] [ ]
  ; IS__UNIT_OPM-NEXT: bb:
    ; IS__UNIT_OPM-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__UNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture noreturn noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) ![ATTR6]
    ; IS__UNIT_OPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture noreturn noundef nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture noreturn noundef nonnull readonly align 64 dereferenceable(64) [[TMP]]) ![ATTR7]
    ; IS__UNIT_OPM-NEXT: [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__UNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__UNIT_OPM-NEXT: ret void
  ; IS__UNIT_OPM: Function Attrs: argmemonly inlinehint noreturn nocall nodelay norecurse noundef nounwind weavetable willreturn
  ; IS__UNIT_OPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture noreturn writeonly ![ARG:%.*]) ![ATTR3:#.*] [ ]
  ; IS__UNIT_OPM-NEXT: bb:
    ; IS__UNIT_OPM-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
    ; IS__UNIT_OPM-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__UNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture noreturn noundef nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) ![ATTR6]
    ; IS__UNIT_OPM-NEXT: [[TMP0:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
    ; IS__UNIT_OPM-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture noreturn noundef nonnull writeonly noreturn align 64 dereferenceable(64) [[TMP0]], <8 x i64> [[TMP0]]) ![ATTR7]
    ; IS__UNIT_OPM-NEXT: [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
    ; IS__UNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
    ; IS__UNIT_OPM-NEXT: ret void
  ; IS__CGSCC_OPM: Function Attrs: argmemonly inlinehint noreturn nocall nodelay norecurse noundef nounwind weavetable willreturn
  ; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture noreturn writeonly align 2 dereferenceable(64) ![ARG:%.*]) ![ATTR3:#.*] [ ]
  ; 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 norefree noundef nonnull writeonly
   align 64 dereferenceable(64) [[TMP3]], i8 noundef 0, i64 noundef 32, i1 noundef false) [[ATTR6]]
; IS__CGSCC_OPM-NEXT:   call fastcc void
   @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture norefree nonnull
   nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture norefree nonnull nonnull
   readonly align 64 dereferenceable(64) [[TMP]]) [[ATTR7]]
; 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: Function Attrs: argmemonly inlinehint norefree nosync nounwind uwtable willreturn
; IS__CGSCC_NPM-LABEL: define {{[^@]+}} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
   (<8 x i64>* nocapture norefree noundef nonnull writeonly align 64 dereferenceable(64)
   [[ARG:%.*]]) [[ATTR3:#.*]] { [[ATTR6]] }
; IS__CGSCC_NPM-NEXT:   bb:
; 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* align 32 %tmp3, i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:       call fastcc void
   @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture norefree nonnull
   nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]) [[ATTR7]]
; IS__CGSCC_NPM-NEXT:       [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__CGSCC_NPM-NEXT:       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
; IS__CGSCC_NPM-NEXT:       store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
; IS__CGSCC_NPM-NEXT:       ret void

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = [ inlinehint norecourse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width=""512" "prefer-vector-width=""512""]
attributes #1 = [ inlinehint norecourse 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 -O3 -mtriple=powerpc-unknown-linux-gnu -mcpu=e500 -mattr=spe < %s | FileCheck %s

; 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=VEC256,AVX
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=VEC256,AVX512VL256
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=AVX512VL512
; RUN: opt < %s  -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=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=SKX512

define void @zext256() "min-legal-vector-width"="256" {
    ; VEC256-LABEL: '.zext256'
    ; VEC256-NEXT:  Cost Model: Found an estimated cost of 3 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 3 for instruction: %D = zext <16 x i16> undef to <16 x
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> def 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

  ; SKX512-LABEL: 'zext512'
  ; SKX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; SKX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; SKX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; SKX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; SKX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; SKX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; AVX12VL512-LABEL: 'zext256'
  ; AVX12VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; AVX12VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; AVX12VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; AVX12VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; AVX12VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = zext <32 x i8> undef to <32 x i16>
  ; AVX12VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

  ; SKX512-LABEL: 'zext256'
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
  ; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
  ; SKX512-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
}
Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
Cost Model: Found an estimated cost of 1 for instruction: ret void

Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
Cost Model: Found an estimated cost of 0 for instruction: ret void

Cost Model: Found an estimated cost of 1 for instruction: %A = zext <8 x i16> undef to <8 x i64>
Cost Model: Found an estimated cost of 1 for instruction: %B = zext <8 x i32> undef to <8 x i64>
Cost Model: Found an estimated cost of 1 for instruction: %C = zext <16 x i8> undef to <16 x i32>
Cost Model: Found an estimated cost of 1 for instruction: %D = zext <16 x i16> undef to <16 x i32>
Cost Model: Found an estimated cost of 1 for instruction: %E = zext <32 x i8> undef to <32 x i16>
Cost Model: Found an estimated cost of 0 for instruction: 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 <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 3 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

  ; AVX512VL512-LABEL: 'sext256'  
  ; 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

  ; 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>
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>
  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>
  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>
  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>
  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
;
; 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-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>

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>

AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 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>

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
define i32 @zext256_vXi1() "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 3 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
};
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-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 5 for instruction: %V16i64 = zext <16 x i1> undef to <16 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 5 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>

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 12 for instruction: %V16i16 = zext <16 x i1> undef to <16 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 6 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>

AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
<4 x i8>
: AVX512VL256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
: AVX512VL256-NEXT: Cost Model: Found an estimated cost of 12 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
: AVX512VL256-NEXT: Cost Model: Found an estimated cost of 25 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
: AVX512VL256-NEXT: Cost Model: Found an estimated cost of 50 for instruction: %V64i8 = zext <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: '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: %V16i32 = zext <16 x i1> undef to <16 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 4 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 5 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; 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 5 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i16 = zext <64 x i1> undef to <64 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 i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; SKX512-LABEL: 'zext256_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
%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 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = sext <16 x i1> undef to <16 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>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
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: %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 3 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 3 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>
; 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: %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>

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%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 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 44 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 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 8 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>
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-LABEL: 'trunc_vXi1'
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 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
AVX512VL512-NEXT: Cost Model: Found an estimated cost of 22 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 2 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>
<table>
<thead>
<tr>
<th>Instruction</th>
<th>Estimated Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>%V16i16 = trunc &lt;16 x i16&gt; undef to &lt;16 x i1&gt;</td>
<td>2</td>
</tr>
<tr>
<td>%V32i16 = trunc &lt;32 x i16&gt; undef to &lt;32 x i1&gt;</td>
<td>5</td>
</tr>
<tr>
<td>%V64i16 = trunc &lt;64 x i16&gt; undef to &lt;64 x i1&gt;</td>
<td>11</td>
</tr>
<tr>
<td>%V2i8 = trunc &lt;2 x i8&gt; undef to &lt;2 x i1&gt;</td>
<td>2</td>
</tr>
<tr>
<td>%V4i8 = trunc &lt;4 x i8&gt; undef to &lt;4 x i1&gt;</td>
<td>2</td>
</tr>
<tr>
<td>%V8i8 = trunc &lt;8 x i8&gt; undef to &lt;8 x i1&gt;</td>
<td>2</td>
</tr>
<tr>
<td>%V16i8 = trunc &lt;16 x i8&gt; undef to &lt;16 x i1&gt;</td>
<td>2</td>
</tr>
<tr>
<td>%V32i8 = trunc &lt;32 x i8&gt; undef to &lt;32 x i1&gt;</td>
<td>5</td>
</tr>
<tr>
<td>%V64i8 = trunc &lt;64 x i8&gt; undef to &lt;64 x i1&gt;</td>
<td>11</td>
</tr>
<tr>
<td>%V2i32 = trunc &lt;2 x i32&gt; undef to &lt;2 x i1&gt;</td>
<td>2</td>
</tr>
<tr>
<td>%V4i32 = trunc &lt;4 x i32&gt; undef to &lt;4 x i1&gt;</td>
<td>2</td>
</tr>
<tr>
<td>%V8i32 = trunc &lt;8 x i32&gt; undef to &lt;8 x i1&gt;</td>
<td>2</td>
</tr>
<tr>
<td>%V16i32 = trunc &lt;16 x i32&gt; undef to &lt;16 x i1&gt;</td>
<td>2</td>
</tr>
<tr>
<td>%V32i32 = trunc &lt;32 x i32&gt; undef to &lt;32 x i1&gt;</td>
<td>5</td>
</tr>
<tr>
<td>%V64i32 = trunc &lt;64 x i32&gt; undef to &lt;64 x i1&gt;</td>
<td>11</td>
</tr>
<tr>
<td>ret i32 undef</td>
<td>0</td>
</tr>
</tbody>
</table>

; 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> | 2 |
| %V4i64 = trunc <4 x i64> undef to <4 x i1> | 2 |
| %V8i64 = trunc <8 x i64> undef to <8 x i1> | 2 |
| %V16i64 = trunc <16 x i64> undef to <16 x i1> | 11 |
| %V32i64 = trunc <32 x i64> undef to <32 x i1> | 23 |
| %V64i64 = trunc <64 x i64> undef to <64 x i1> | 47 |
| %V2i16 = trunc <2 x i16> undef to <2 x i1> | 2 |
1.2235 helm-sh-helm 3.8.0

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* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/StyleBundle.java
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/NopStyleSource.java
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/StyleColor.java
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/StyleResolver.java
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/InterpolationHelper.java
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/MemoryStyleSource.java
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/StyleBundleInvocationHandler.java
* /opt/cola/permits/1260641771_1643189305.41/0/jline-style-3-12-1-sources-jar/org/jline/style/Styler.java
*/
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1.2242 dropwizard-logging 1.3.29

1.2242.1 Available under license :
Apache-2.0

1.2243 jinja2 3.0.3

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[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://jinja.palletsprojects.com/
  Changes = https://jinja.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/jinja/
  Issue Tracker = https://github.com/pallets/jinja/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A very fast and expressive template engine.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Environment :: Web Environment
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python
  Topic :: Internet :: WWW/HTTP :: Dynamic Content
  Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
  package_dir = = src
  include_package_data = true
  python_requires = >= 3.6
where = src

[options.entry_points]
babel.extractors =
    jinja2 = jinja2.ext:babel_extract[i18n]

[tool:pytest]
testpaths = tests
filterwarnings =
    error
    ignore:The loop argument:DeprecationWarning:asyncio[.]base_events:542

[coverage:run]
branch = True
source =
    jinja2
tests

[coverage:paths]
source =
    src
*/site-packages

[flake8]
    select = B, E, F, W, B9, ISC
ignore =
    E203
    E501
    E722
W503
max-line-length = 80
per-file-ignores =
    src/jinja2/__init__.py: F401

[mypy]
files = src/jinja2
python_version = 3.6
disable_subclassing_any = True
disable_untyped_calls = True
disable_untyped_defs = True
disable_incomplete_defs = True
noImplicitOptional = True
localPartialTypes = True
noImplicitReexport = True
strictEquality = True
warnRedundantCasts = True
warnUnusedConfigs = True
warnUnusedIgnores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False

[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/setup.cfg

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Metadata-Version: 2.1
Name: Jinja2
Version: 3.0.3
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Changes, https://jinja.palletsprojects.com/changes/
Project-URL: Twitter, https://twitter.com/PalletsTeam
Project-URL: Chat, https://discord.gg/pallets
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=3.6
Description-Content-Type: text/x-rst
Provides-Extra: i18n
License-File: LICENSE.rst
Jinja
=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell
-------------

.. code-block:: jinja

    {% extends "base.html" %}
    {% block title %}Members{% endblock %}
    {% block content %}
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-----

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Links
-----

- Documentation: https://jinja.palletsprojects.com/
- Changes: https://jinja.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Jinja2/
- Source Code: https://github.com/pallets/jinja/
- Issue Tracker: https://github.com/pallets/jinja/issues/
- Website: https://palletsprojects.com/p/jinja/
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/src/Jinja2.egg-info/PKG-INFO
* /opt/cola/permits/1226358395_1636965021.11/0/jinja2-3-0-3-tar-gz/Jinja2-3.0.3/PKG-INFO

1.2244 tomcat-i18n-cs 9.0.63

1.2244.1 Available under license:

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The Windows Installer is built with the Nullsoft
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Java compilation software for JSP pages is provided by the Eclipse
JDT Core Batch Compiler component, which is open source software.
The original software and related information is available at
https://www.eclipse.org/jdt/core/.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages
are derivative work originating from the Netty project and the finagle-native
project developed at Twitter
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For portions of the Tomcat cloud support
The org.apache.catalina.tribes.membership.cloud package contains derivative
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https://github.com/jgroups-extras/jgroups-kubernetes
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The original XML Schemas for Java EE Deployment Descriptors:
- javae_5.xsd
- javae_web_services_1_2.xsd
- javae_web_services_client_1_2.xsd
- javae_6.xsd
- javae_web_services_1_3.xsd
- javae_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javae_7.xsd
- javae_web_services_client_1_4.xsd
- javae_web_services_1_4.xsd
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- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
- web-app_4_0.xsd
- web-common_4_0.xsd
- web-fragment_4_0.xsd

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## 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 HTTPSConectionPool)

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

* niphlod <niphlod@gmail.com>
  * Client-verified SSL certificates for HTTPSConectionPool
  * 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 <http://github.com/georgemarshall>
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* Thomas Kluyver <thomas@kluyver.me.uk>
  * Python 3 support

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

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

* Shivaram Lingamneni <slingmn@cs.stanford.edu>
  * Support for explicitly closing pooled connections
* hartator <hartator@gmail.com>
  * 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@ravellosystems.com>
  * Allowed to skip SSL hostname verification

* Cory Benfield <http://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 <http://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 <http://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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* 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 Vandenberg <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

* Jesse 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

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

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1.2251 logstash-filter-syslog_pri 3.1.1

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1.2254 logstash-mixin-deprecation_logger_support 1.0.0

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1.2255 jls-grok 0.11.5

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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@end enumerate

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This is the Debian GNU/Linux prepackaged version of the GNU compiler
collection, containing Ada, C, C++, D, Fortran 95, Go, Objective-C,
Objective-C++, and Modula-2 compilers, documentation, and support
libraries. In addition, Debian provides the gm2 compiler, either in
the same source package, or built from a separate same source package.
Packaging is done by the Debian GCC Maintainers
<debian-gcc@lists.debian.org>, with sources obtained from:

ftp://gcc.gnu.org/pub/gcc/releases/ (for full releases)
svn://gcc.gnu.org/svn/gcc/ (for prereleases)
ftp://sourceware.org/pub/newlib/ (for newlib)
The current gcc-9 source package is taken from the SVN gcc-9-branch.

Changes: See changelog.Debian.gz

Debian splits the GNU Compiler Collection into packages for each language, library, and documentation as follows:

<table>
<thead>
<tr>
<th>Language</th>
<th>Compiler package</th>
<th>Library package</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ada</td>
<td>gnat-9</td>
<td>libgnat-9</td>
<td>gnat-9-doc</td>
</tr>
<tr>
<td>BRIG</td>
<td>gccbrig-9</td>
<td>libhsail-rt0</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>gcc-9</td>
<td>gcc-9-doc</td>
<td></td>
</tr>
<tr>
<td>C++</td>
<td>g++-9</td>
<td>libstdc++6</td>
<td>libstdc++6-9-doc</td>
</tr>
<tr>
<td>D</td>
<td>gdc-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fortran 95</td>
<td>gfortran-9</td>
<td>libgfortran3</td>
<td>gfortran-9-doc</td>
</tr>
<tr>
<td>Go</td>
<td>gccgo-9</td>
<td>libgo0</td>
<td></td>
</tr>
<tr>
<td>Objective C</td>
<td>gobjc-9</td>
<td>libobjc2</td>
<td></td>
</tr>
<tr>
<td>Objective C++</td>
<td>gobjc++-9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Modula-2</td>
<td>gm2-9</td>
<td>libgm2</td>
<td></td>
</tr>
</tbody>
</table>

For some language run-time libraries, Debian provides source files, development files, debugging symbols and libraries containing position-independent code in separate packages:

<table>
<thead>
<tr>
<th>Language</th>
<th>Sources</th>
<th>Development</th>
<th>Debugging</th>
<th>Position-Independent</th>
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<tbody>
<tr>
<td>C++</td>
<td></td>
<td>libstdc++6-9-dbglstdc++6-9-pic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>libphobos-9-dev</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Additional packages include:

All languages:
libgcc1, libgcc2, libgcc4     GCC intrinsics (platform-dependent)
gcc-9-base                  Base files common to all compilers
gcc-9-soft-float            Software floating point (ARM only)
gcc-9-source                 The sources with patches

Ada:
libgnatvsn-dev, libgnatvsn9  GNAT version library

C:
cpp-9, cpp-9-doc            GNU C Preprocessor
libssp0-dev, libssp0        GCC stack smashing protection library
libquadmath0                 Math routines for the __float128 type
fixincludes                 Fix non-ANSI header files
C, C++ and Fortran 95:
libgomp1-dev, libgomp1GCC OpenMP (GOMP) support library
libitm1-dev, libitm1GNU Transactional Memory Library

Biarch support: On some 64-bit platforms which can also run 32-bit code,
Debian provides additional packages containing 32-bit versions of some
libraries. These packages have names beginning with 'lib32' instead of
'lib', for example lib32stdc++6. Similarly, on some 32-bit platforms which
can also run 64-bit code, Debian provides additional packages with names
beginning with 'lib64' instead of 'lib'. These packages contain 64-bit
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gcc/system.h, gcc/typeclass.h).
- libatomic
- libdecnumber
- libgomp
- libitm
- libssp
- libstdc++-v3
- libobjc
- libgfortran
- The libgnat-9 Ada support library and libgnatvsn library.
- Various config files in gcc/config/ used in runtime libraries.
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Developed by:

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University of Illinois at Urbana-Champaign

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D:

gdc-9                         GNU D Compiler
libphobos-9-dev               D standard runtime library

The D source package is made up of the following components.

The D front-end for GCC:
- d/*

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- d/dmd/*

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The Zlib data compression library:
- d/phobos/etc/c/zlib/*

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The Phobos standard runtime library:
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iconv (Charset Conversion Library) v2.0

(27) Artem Bityuckiy (--enable-newlib-iconv)

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Gocheck - A rich testing framework for Go

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Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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package run

import (
    "flag"
    "fmt"
    "io"
    "io/ioutil"
    "os"
    "path/filepath"
    "sort"
    "text/template"

    "github.com/kardianos/govendor/context"
    "github.com/kardianos/govendor/help"
)

var defaultLicenseTemplate = `{{range $index, $t := .}}{{if ne $index
0}}~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
{{end}}{{.Filename}} - {{.Path}}{{.Text}}{{end}}`

func (r *runner) License(w io.Writer, subCmdArgs []string) (help.HelpMessage, error) {
    flags.SetOutput(nullWriter{})
    outputFilename := flags.String("o", "", "output")
    templateFilename := flags.String("template", "", "custom template file")
    err := flags.Parse(subCmdArgs)
    if err != nil {
        return help.MsgLicense, err
    }
    args := flags.Args()

    templateText := defaultLicenseTemplate
    if len(*templateFilename) > 0 {
        text, err := ioutil.ReadFile(*templateFilename)
        if err != nil {
            return help.MsgNone, err
        }
        templateText = string(text)
    }
    t, err := template.New("").Parse(templateText)
    if err != nil {
        return help.MsgNone, err
    }
    for _, a := range args {
        // process arguments
    }
    tmpl.Execute(w, []map[string]interface{}
    for _, a := range args {
        // process arguments
    }
    return help.MsgNone, nil
}
return help.MsgNone, err
}
output := w
if len(*outputFilename) > 0 {
f, err := os.Create(*outputFilename)
if err != nil {
return help.MsgNone, err
}
def f.Close()
output = f
}

ctx, err := r.NewContextWD(context.RootVendorOrWD)
if err != nil {
return checkNewContextError(err)
}
cgp, err := currentGoPath(ctx)
if err != nil {
return help.MsgNone, err
}
f, err := parseFilter(cgp, args)
if err != nil {
return help.MsgLicense, err
}
if len(f.Import) == 0 {
insertListToAllNot(&f.Status, normal)
} else {
insertListToAllNot(&f.Status, all)
}

list, err := ctx.Status()
if err != nil {
return help.MsgNone, err
}
var licenseList context.LicenseSort
var lmap = make(map[string]context.License, 9)
if err != nil {
return help.MsgNone, fmt.Errorf("Failed to discover license for Go %q %v", ctx.Goroot, err)
}

for _, item := range list {
if f.HasStatus(item) == false {
continue
}
if len(f.Import) != 0 && f.FindImport(item) == nil {
continue
}
if err != nil {
    return help.MsgNone, fmt.Errorf("Failed to discover license for %q %v", item.Local, err)
}
for _, l := range lmap {
    licenseList = append(licenseList, l)
}
sort.Sort(licenseList)
return help.MsgNone, t.Execute(output, licenseList)

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package context

import (
    "fmt"
    "io/ioutil"
    "os"
    "path"
    "path/filepath"
    "strings"
    "github.com/kardianos/govendor/internal/pathos"
    "github.com/pkg/errors"
)

type License struct {
    Path     string
    Filename string
    Text     string
}

type LicenseSort []License

func (list LicenseSort) Len() int {
    return len(list)
}

func (list LicenseSort) Swap(i, j int) {
    list[i], list[j] = list[j], list[i]
}

func (list LicenseSort) Less(i, j int) bool {
    a, b := list[i], list[j]
    if a.Path == b.Path {
        return a.Filename < b.Filename
    }
    return a.Path < b.Path
}

type licenseSearchType byte

const ( licensePrefix licenseSearchType = iota licenseSubstring)
type licenseSearch struct {
    Text   string
    Search licenseSearchType
}

func (t licenseSearchType) Test(filename, test string) bool {
    switch t {
    case licensePrefix:
        return strings.HasPrefix(filename, test)
    case licenseSubstring:
        return strings.Contains(filename, test)
    case licenseSuffix:
        return strings.HasSuffix(filename, test)
    }
    return false
}

type licenseTest interface {
    Test(filename, test string) bool
}

// licenses lists the filenames to copy over to the vendor folder.
var licenses = []licenseSearch{
    {Text: "license", Search: licensePrefix},
    {Text: "unlicense", Search: licensePrefix},
    {Text: "copying", Search: licensePrefix},
    {Text: "copyright", Search: licensePrefix},
    {Text: "copyright", Search: licensePrefix},
    {Text: "legal", Search: licenseSubstring},
    {Text: "notice", Search: licenseSubstring},
    {Text: "disclaimer", Search: licenseSubstring},
    {Text: "patent", Search: licenseSubstring},
    {Text: "third-party", Search: licenseSubstring},
    {Text: "thirdparty", Search: licenseSubstring},
}

var licenseNotExt = []string{
    ".go",
    ".c",
    ".h",
    ".cpp",
    ".hpp",
}

func isLicenseFile(name string) bool {
    licenseSuffix
}
cname := strings.ToLower(name)
for _, X := range licenseNotExt {
    if filepath.Ext(name) == X {
        return false
    }
}
for _, L := range licenses {
    if L.Search.Test(cname, L.Text) {
        return true
    }
}
return false

// licenseWalk starts in a folder and searches up the folder tree
// for license like files. Found files are reported to the found function.
func licenseWalk(root, startIn string, found func(folder, name string) error) error {
    folder := startIn
    for i := 0; i <= looplimit; i++ {
        dir, err := os.Open(folder)
        if err != nil {
            return err
        }
        fl, err := dir.Readdir(-1)
        dir.Close()
        if err != nil {
            return err
        }
        for _, fi := range fl {
            name := fi.Name()
            if name[0] == '.' {
                continue
            }
            if fi.IsDir() {
                continue
            }
            if !isLicenseFile(name) {
                continue
            }
            err = found(folder, name)
            if err != nil {
                return err
            }
        }
        if len(folder) <= len(root) {
return nil
}

nextFolder := filepath.Clean(filepath.Join(folder, "."))

if nextFolder == folder {
    return nil
}
folder = nextFolder

panic("licenseFind loop limit")
}

// licenseCopy starts the search in the parent of "startIn" folder. // Looks in all sub-folders until root is reached. The root itself is not // searched.
func licenseCopy(root, startIn, vendorRoot, pkgPath string) error {
    addTo, _ := pathos.TrimCommonSuffix(pathos.SlashToFilepath(pkgPath), startIn)
    startIn = filepath.Clean(filepath.Join(startIn, "."))
    return licenseWalk(root, startIn, func(folder, name string) error {
        srcPath := filepath.Join(folder, name)
        trimTo := pathos.FileTrimPrefix(getLastVendorRoot(folder), root)
        destPath := filepath.Join(vendorRoot, addTo, trimTo, name)
        // Only copy if file does not exist.
        _, err := os.Stat(srcPath)
        if err != nil {
            return errors.Errorf("Source license path doesn't exist %q", srcPath)
        }
        destDir, _ := filepath.Split(destPath)
        os.MkdirAll(destDir, 0777)
        return errors.Wrapf(copyFile(destPath, srcPath, nil), "copyFile dest=%q src=%q", destPath, srcPath)
    })
}

/*
Path: "golang.org/x/tools/go/vcs"
Root: "/tmp/govendor-cache280388238/1"
StartIn: "/tmp/govendor-cache280388238/1/go/vcs"
addTo: "golang.org/x/tools"
$PROJ/vendor + addTo + pathos.FileTrimPrefix(folder, root) + "LICENSE"
*/
destPath := filepath.Join(vendorRoot, addTo, trimTo, name)

// Only err if file does not exist.
_ , err := os.Stat(srcPath)
if err != nil {
    return errors.Errorf("Source license path doesn't exist %q", srcPath)
}
destDir, _ := filepath.Split(destPath)
os.MkdirAll(destDir, 0777)
return errors.Wrapf(copyFile(destPath, srcPath, nil), "copyFile dest=%q src=%q", destPath, srcPath)
}

func getLastVendorRoot(s string) string {
    w := strings.Replace(s, "\", "/", -1)
    ix := strings.LastIndex(w, "/vendor/"
    if ix < 0 {
        return s
    }
    return s
}
// LicenseDiscover looks for license files in a given path.
func LicenseDiscover(root, startIn, overridePath string, list map[string]License) error {
    return licenseWalk(root, startIn, func(folder, name string) error {
        ipath := pathos.SlashToImportPath(strings.TrimPrefix(folder, root))
        if len(overridePath) > 0 {
            ipath = overridePath
        }
        if _, found := list[ipath]; found {
            return nil
        }
        p := filepath.Join(folder, name)
        text, err := ioutil.ReadFile(p)
        if err != nil {
            return fmt.Errorf("Failed to read license file %q %v", p, err)
        }
        key := path.Join(ipath, name)
        list[key] = License{
            Path:     ipath,
            Filename: name,
            Text:     string(text),
        }
        return nil
    })
}

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// Machine generated; DO NOT EDIT.

package help
var msgGovendorLicenses = `{{range $index, $t := .}}{{if ne $index 0}}~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
{{end}}{{.Filename}} - {{.Path}}
{{.Text}}{{end}}}
`;

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match.go, match_test.go:

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1.2260 google-cloud-storage 1.117.1

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GSS-API mechglue layer.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@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>
@author Paulo Barreto <paulo.barreto@terra.com.br>

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Certificate data from Mozilla as of: Thu Nov  3 19:04:19 2011#
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(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) SRCsfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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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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1.2278 argparse 1.4.0

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A. HISTORY OF THE SOFTWARE

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

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

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (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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 */
/**
 * API for resource information population.
 *
 * <p>The resource library primarily defines a type "Resource" that captures information about the
 * entity for which stats or traces are recorded. For example, metrics exposed by a Kubernetes
 * container can be linked to a resource that specifies the cluster, namespace, pod, and container
 * name.
 *
 * Two environment variables are used to populate resource information:
 * */
* <ul>
*   <li>**OC_RESOURCE_TYPE**: A string that describes the type of the resource prefixed by a domain namespace. Leading and trailing whitespaces are trimmed. e.g. “kubernetes.io/container”.
*   <li>**OC_RESOURCE_LABELS**: A comma-separated list of labels describing the source in more detail, e.g. “key1=val1,key2=val2”. The allowed character set is appropriately constrained.
* </ul>

* Type, label keys, and label values MUST contain only printable ASCII (codes between 32 and 126, inclusive) and less than 256 characters. Type and label keys MUST have a length greater than zero. They SHOULD start with a domain name and separate hierarchies with / characters, e.g. k8s.io/namespace/name.

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* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/export/SampledSpanStore.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/stats/NoopStats.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/internal/ZeroTimeClock.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/samplers/AlwaysSampleSampler.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/tags/propagation/TagContextBinarySerializer.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/tags/Tags.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/tags/TagContextDeserializationException.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/propagation/SpanContextParseException.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/tags/TagsComponent.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/Link.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/stats/package-info.java

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 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/tags/TagContextTextFormat.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/tags/TagMetadata.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/tags/TagValue.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/metrics/data/package-info.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/metrics/data/Exemplar.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/metrics/DoubleCumulative.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/metrics/LongCumulative.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/metrics/data/package-info.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/metrics/DoubleCumulative.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/metrics/LongCumulative.java
 * /opt/cola/permissions/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/tags/TagContextTextFormat.java
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  jar/io/opencensus/metrics/DerivedDoubleGauge.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/trace/MessageEvent.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/common/ServerStats.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/metrics/export/MetricProducer.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/trace/BigendianEncoding.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/common/ToDoubleFunction.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/trace/Tracestate.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/metrics/LabelValue.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/metrics/export/Value.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/metrics/DoubleGauge.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
  jar/io/opencensus/common/ServerStatsFieldEnums.java
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* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/stats/Measurement.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/stats/Stats.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/TraceId.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/Status.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/common/Duration.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/common/AttributeValue.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/common/Timestamp.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/common/Function.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/NetworkEvent.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/TraceComponent.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/Tracing.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/stats/ViewData.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/common/Timestamp.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-jar/io/opencensus/trace/Span.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
Found in path(s):
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
jar/io/opencensus/stats/View.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
jar/io/opencensus/common/OpenCensusLibraryInformation.java
* /opt/cola/permits/1148044123_1635875831.74/0/opencensus-api-0-28-0-sources-
jar/io/opencensus/stats/ViewManager.java
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jar/io/opencensus/internal/StringUtils.java
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 */
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 * This package describes the Metrics data model. Metrics are a data model for what stats exporters
 * take as input. This data model may eventually become the wire format for metrics.
 *
 * <p>WARNING: Currently all the public classes under this package are marked as {@link
 * io.opencensus.common.ExperimentalApi}. The classes and APIs under {@link io.opencensus.metrics}
 * are likely to get backwards-incompatible updates in the future. DO NOT USE except for
 * experimental purposes.
 *
 * <p>Please see
 * https://github.com/census-instrumentation/opencensus-specs/blob/master/stats/Metrics.md and
 * for more details.
 */

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1.2290 libcap-ng 0.7.7-3+b1

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It was downloaded from http://people.redhat.com/sgrubb/libcap-ng/

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1.2291 urllib3 1.26.2
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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

## 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

* brandon-rhodes <http://rhodesmill.org/brandon>
* Design review, bugfixes, test coverage.

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

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
* Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
* 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@ravellosystems.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 <grafta@colmingov@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 Vandenberg <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 vending

* 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`.

* Jorge Lopez Silva <https://github.com/jalopezsilva>  
  * Added support for forwarding requests through HTTPS proxies.

* Benno Rice <benno@jeamland.net>  
  * Allow cadata parameter to be passed to underlying ```SSLContext.load_verify_locations()```

* Keichi Kobayashi <abok.1k@gmail.com>  
  * Rename VerifiedHTTPSConnection to HTTPSConnection

* Himanshu Garg <garg_himanshu@outlook.com>  
  * DOC & LICENSE Update

* Hod Bin Noon <bin.noon.hod@gmail.com>  
  * Test improvements

* Chris Olufson <tycarac@gmail.com>  
  * Fix for connection not being released on HTTP redirect and response not preloaded

* [Bastiaan Bakker] <https://github.com/bastiaanb>
* Support for logging session keys via environment variable `SSLKEYLOGFILE` (Python 3.8+)

* [Ezzeri Esa] <https://github.com/savarin>
* Ports and extends on types from typeshed

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

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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

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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

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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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OW2

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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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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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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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    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',
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    'Programming Language :: Python',
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    'Programming Language :: Python :: 3.4',
    'Programming Language :: Python :: 3.5',
    'Programming Language :: Python :: 3.6',
    '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/1110810307_1606855956.29/0/kjd-idna-v2-8-0-g1cdf175-1-tar-gz/kjd-idna-375dc46/setup.py

1.2319 go-kit-log 0.2.0

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1.2320 cql 1.4.0

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

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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.

@item
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.

@item
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.

@item
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.

@end enumerate

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

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@end enumerate

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1.2335 py3-msgpack 1.0.0-r0

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1.2336 x-tools 0.1.11

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package hooks

import (  
    "bytes"  
    "io/ioutil"  
    "os/exec"  
)
func TestLicenses(t *testing.T) {
  // License text differs for older Go versions because staticcheck isn't
  // supported for those versions.
  testenv.NeedsGo1Point(t, 17)

  if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
    t.Skip("generating licenses only works on Unixes")
  }
  tmp, err := ioutil.TempFile("", 

  if err != nil {
    t.Fatal(err)
  }
  tmp.Close()

  if out, err := exec.Command("/gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
    t.Fatalf("generating licenses failed: %q, %v", out, err)
  }

  got, err := ioutil.ReadFile(tmp.Name())
  if err != nil {
    t.Fatal(err)
  }
  want, err := ioutil.ReadFile("licenses.go")
  if err != nil {
    t.Fatal(err)
  }
  if !bytes.Equal(got, want) {
    t.Error("combined license text needs updating. Run: `go generate /internal/hooks` from the gopls module.")
  }
}

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//go:build go1.18
// +build go1.18

// Package copyright checks that files have the correct copyright notices.
package copyright

import {
  "go/ast"
func checkCopyright(dir string) ([]string, error) {
    var files []string
    err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
        if err != nil {
            return err
        }
        if d.IsDir() {
            // Skip directories like ".git".
            if strings.HasPrefix(d.Name(), ".") {
                return filepath.SkipDir
            }
            // Skip any directory that starts with an underscore, as the go
            // command would.
            if strings.HasPrefix(d.Name(), "_") {
                return filepath.SkipDir
            }
            return nil
        }
        needsCopyright, err := checkFile(dir, path)
        if err != nil {
            return err
        }
        if needsCopyright {
            files = append(files, path)
        }
        return nil
    })
    return files, err
}

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.
Use of this source code is governed by a BSD-style
license that can be found in the LICENSE file.`)

func checkFile(toolsDir, filename string) (bool, error) {
    // Only check Go files.
    if !strings.HasSuffix(filename, "go") {
        return false, nil
    }
    return true, nil
}
// Don't check testdata files.
normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
if strings.Contains(normalized, `/testdata/`) {
    return false, nil
}

// goyacc is the only file with a different copyright header.
if strings.HasSuffix(normalized, `cmd/goyacc/yacc.go`) {
    return false, nil
}

content, err := ioutil.ReadFile(filename)
if err != nil {
    return false, err
}

fset := token.NewFileSet()
parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
if err != nil {
    return false, err
}

// Don't require headers on generated files.
if isGenerated(fset, parsed) {
    return false, nil
}

shouldAddCopyright := true
for _, c := range parsed.Comments {
    // The copyright should appear before the package declaration.
    if c.Pos() > parsed.Package {
        break
    }
    if copyrightRe.MatchString(c.Text()) {
        shouldAddCopyright = false
        break
    }
}

return shouldAddCopyright, nil

// Copied from golang.org/x/tools/internal/lsp/source/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

func isGenerated(fset *token.FileSet, file *ast.File) bool {
    for _, commentGroup := range file.Comments {
        for _, comment := range commentGroup.List {
            if matched := generatedRx.MatchString(comment.Text); !matched {
                continue
            }
        }
    }

    return false
}
// Check if comment is at the beginning of the line in source.
if pos := fset.Position(comment.Slash); pos.Column == 1 {
    return true
}
}
return false

// Check if comment is at the beginning of the line in source.
if pos := fset.Position(comment.Slash); pos.Column == 1 {
    return true
}
}
return false

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package hooks

const licensesText = `-- github.com/BurntSushi/toml COPYING --`
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import (
    "os"
    "path/filepath"
    "strings"
    "testing"
)

func TestToolsCopyright(t *testing.T) {
    cwd, err := os.Getwd()
    if err != nil {
        t.Fatal(err)
    }
    tools := filepath.Dir(cwd)
    if !strings.HasSuffix(filepath.Base(tools), "tools") {
        t.Fatalf("current working directory is %s, expected tools", tools)
    }
    files, err := checkCopyright(tools)
    if err != nil {
        t.Fatal(err)
    }
    if len(files) > 0 {
        t.Errorf("The following files are missing copyright notices:
%s", strings.Join(files, "\n"))
    }
}

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

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

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

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

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

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

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.

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

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

These requirements apply to the modified work as a whole. If
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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.
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a) Accompany the work with the complete corresponding
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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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org.ow2.asm:asm-commons
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Kaiser Yang &lt;kaiseryang@#064yahoo.com&gt; - Finding BigInteger loop problem in prime generation.

Jiri Urbanec &lt;jiri.urbanec@#064logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().

Justin Kolb &lt;jkolb@#064pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.

Ralf Hauser &lt;ralfhauser@#064gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.

Michal Dvorak &lt;m_Dvorak@#064kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.

Klaus Greve Fiorentini &lt;Klaus@#064epqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.

Olivier Refalo &lt;Olivier_Refalo@#064fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.

Mariusz Bandola &lt;mariusz.bandola@#064cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.

Brien Oberstein &lt;brien.oberstein@#064transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtility.

Ian Haywood &lt;ian@#064haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.

Guy Urbanec &lt;34gull@#064mac.com&gt; - initial support for reading multiple rings from a PGP key file.

Andrew Thornton &lt;andrew@#064carect.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.

Gregor Leander &lt;gl@#064bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.

Antoon Bosselaers &lt;Antoon.Bosselaers@#064sat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.

Peter Sylvester &lt;Peter.Sylvester@#064edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.

Doug &lt;ummmmm@#064myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.

Francois Staes &lt;fstaes@#064netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.

W.R. Dittmer &lt;wdittmer@#064cs.vu.nl&gt; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPKeyPair to fix nullpointer exception.

Perez Paz Luis Alberto &lt;laperez@#064banxico.org.mx&gt; - patch to use of BitString in X.500 name.
James Wright &lt;James_Wright@harte-hanks.com&gt; - patches for dealing with "odd" ArmoredInputStreams.

Jim Ford &lt;jim@064-muirford.com&gt; - 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.

Michael Hausler &lt;haeusler@064-ponton-consulting.de&gt; - extra aliases for provider.

Sai Pullabhotla &lt;psai@064linoma.com&gt; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.

Joseph Miller &lt;joseph@064digiweb.net.nz&gt; - addition of ZeroBytePadding.

Lars &lt;xyz@064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.

Jeroen van Vianen &lt;jeroen@064vanvianen.nl&gt; - the Signed and Encrypted mail example.

Jun Sun &lt;JSun@064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.

Petr Dukem &lt;pdukem@064email.cz&gt; - patch to CMSObjectIdentifierGenerator to allow it to work with PKCS11 providers.

Filipe Silva &lt;filipe.silva@wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.

Alpesh Parmar &lt;alps@064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().

Jay Gengelbach &lt;jgengelbach@064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.

Doug &lt;doug@064-tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.

Matthew Mundy &lt;mmundy1@064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.

Tom Cargill &lt;cargill@profcon.com&gt; - spelling patch in provider.

Breitenstrom Christian &lt;cBreitenstrom@064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.

Zanotti Mirko &lt;zanotti@064cad.it&gt; - patch to ordered equality test for X509Name.

Nicola Scendoni &lt;nscendoni@064babelps.it&gt; - patch to add sorting to CertPath validation.

Ville Skytt&auml; &lt;ville.skytta@064iki.fi&gt; - patch to CRLDistPoint for crliIssuer 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.

Bruce Gordon &lt;bruce.gordon@savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.

Miles Whiteley &lt;Miles.Whiteley@064savvis.net&gt; - "223" fix for BCPGInputStream new packets.

Albert Moliner &lt;amoliner@064evintia.com&gt; - initial TSP implementation.

Carlos Lozano &lt;Carlos.Lozano@064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.

Javier Delgadillo &lt;javi@javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.

Joni Hahkala &lt;joni.hahkala@064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, letfAttrSyntax, and ObjectDigestInfo. We also wish to thank the &lt;a href="http://www.eu-egee.org">EGEE project</a> for making the work available.

Rolf Schillinger &lt;rolf@064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.

Sergey Bahtin &lt;Sergey_Bahtin@yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.

Franck Leroy &lt;Franck.Leroy@064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP.
implementation. Test vectors for Bleichenbacher's forgery attack.

- Atsuhiko Yamanaka &lt;ymnk@#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.
- Nickolay Bolshakov &lt;tyrex@#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.
- Soren Hilmer &lt;soren.hilmer@#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.
- Steve Mitchell &lt;mitchell@#064intertrust.com&gt; - 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 &lt;D.Eisner@seeburger.de&gt; - initial implementation of ISO 7816-4 padding.
- Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.
- Matteo &lt;matartuso@#064libero.it&gt; - sequence patch to ASN1Dump.
- Andrew Paterson &lt;andrew.patonson@#064burnsec.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.
- Vladimir Molotkov &lt;vladimir.n.molotkov@#064intel.com&gt; - extensive provider exception handling compliance testing.
- Florin Kollan &lt;adlocflo@#064web.de&gt; - fix to ElGamalKeyParameters equality testing.
- Pavel Vassiliev &lt;paulvas@#064gmail.com&gt; - Initial GOST28147Mac implementation.
- Tom Pesman &lt;tom@#064tnux.net&gt; - addition of DES-3DES encryption for RSAPrivate keys to PEMWriter.
- Lukasz Kowalczyk &lt;lukasz.b.kowalczyk@#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.
- Arndt Hasch &lt;Arndt.Hasc@#064axence.de&gt; - additional fix for partial reading with new style PGP packets.
- Fix Bernd (KCDP 11) &lt;bernd.fix@credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.
- David M. Lee &lt;dmlee@#064crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.
- Mike Dillon &lt;md5@embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.
- tu-vi cung &lt;t2cung@#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.
- Chris Schultz &lt;cschultz@#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.
- David M. Lee &lt;dmlee@#064crossroads.com&gt; - implementation assistance with streaming CMS classes.
- Joel Rees &lt;rees@#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.
- Francesc Sau &lt;francesc.sau@#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.
- Larry Bugbee &lt;bugbee@#064mac.com&gt; - initial ECNR implementation.
- Remi Blancher &lt;Remi.Blancher@#064keynextis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.
- Brian O'Rourke &lt;brianorourke@#064gmail.com&gt; - patch for signature creation time override in OpenPGP.
Andreas Schwier &lt;andreas.schwier@cardcontact.de&gt; - 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.

David Josse &lt;david.josse@transacttools.net&gt; - Patch for trailer function in version 2 signature packets.

Kishimoto Kazuhiko &lt;kazu-k@064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.

Lawrence Tan &lt;lwrnctan@064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.

Carlos Valiente &lt;superdupont@064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.

Keyon AG, Martin Christinit, &lt;a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.

Olaf Keller, &lt;olaf.keller.bc@bluewin.ch&gt; - 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.

Jörg Eichhorn &lt;eichhorn@064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileStream, support for F2m compression.

Karsten Ohme &lt;widerstand@064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name types for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.

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.

Carlos Lozano Ruiz &lt;carlos@064tradise.com&gt; - patch for &lt;lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.

John Alfred Prufrock &lt;j.a.prufrock@064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.

Stefan Neusatz Guilhen &lt;stneusatz@064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.

Marzio Lo Giudice &lt;marzio.logiudice@064gmail.com&gt; - fix to endianess in KDF2BytesGenerator, additional KDF2 tests.

Georg Lippold &lt;georg.lippold@064gmx.de&gt; - initial implementation of NaccacheStern cipher.

Chris Viles &lt;chris_viles@064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.

Pasi Eronen &lt;pasi.eronen@064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.


Maria Ivanova &lt;maria.ivanova@064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.
Armin Häberling &lt;arminha@student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.

Marius Schilder &lt;m.schilder@064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.

Xavier Le Vouch &lt;xavier@064brittanysoftware.com&gt; - general code clean ups.

Erik Tews &lt;e_tews@064cde.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding.

Thomas Dixon &lt;reikomusha@064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.

Frank Cornelis &lt;info@064frankcornelis.be&gt; - addition of crlAccessMethod in X509ObjectIdentifiers.

Rui Joaquim &lt;rjoaquim@064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.

David Stacey &lt;DStacey@064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.

Martijn Brinkers &lt;list@064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.

Julius Davies &lt;juliusdavies@064gmail.com&gt; - additional modes and algorithm support in PEMReader.

Matthias &lt;g@064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.

Olga K&amp;uuml;lther &lt;olga.kaether@064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.

Germano Rizzo &lt;germano.rizzo@064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.

N&amp;uuml;ria Mar&amp;iacute; &lt;numaa@064hotmail.com&gt; - patch for alternate data type recognition in CMSReader.

Janis Schuller &lt;js@064tzi.de&gt; - addition of NotationData packets for OpenPGP.

Michael Samblanet &lt;Mike@064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.

Mike StJohns &lt;mstjohns@064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.

Ramon Keller &lt;ramon.keller@064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.

Mark Nelson &lt;mark@064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.

Eugene Golushkov &lt;eugene_gff@064ukr.net&gt; - mask fix to single byte read in TlsInputStream.

Julien Pasquier &lt;julienpasquier@064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.

Peter Knopp &lt;pknopp@064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.

Jakub Gwozdz &lt;gwozdziu@0644rpm.pl&gt; - addition of getTsa() to TimeStampTokenInfo.

Bartosz Malkowski &lt;bmalkow@064iggins.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.

Tal Yacobi &lt;tal.yacobi@064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].

Massimiliano Ziccardi &lt;massimiliano.ziccardi@064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.

Andrey Pavlenko &lt;andrey.a.pavlenko@064gmail.com&gt; - security manager patch for PKCS1Encoding property check.

J Ross Nicoll &lt;jrn@064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1
Matthew Stevenson &lt;mavricknz@yahoocom&gt; - patch to constructor for CRMF CertSequence.

Gabriele Contini &lt;gcontini@hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.

Roelof Naude &lt;roelof.naude@episu.com&gt; - patch for TLS client to send empty client certs in response to HP_CERTIFICATE_REQUEST.

Patrick Peck &lt;peck@064signatures.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.

Michael LeMay &lt;lemaymd@064lemaymd.com&gt; - identified problem with EAX [#BJA-93].

Alex Dupre &lt;ale@064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102].

Michael Schoene &lt;michael@064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedCAIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().

Ion Larrañaga &lt;ilarra@06421sec.com&gt; - fix to default partial packet generation in BCPGOutputStream.

Bob Kerns &lt;bob.kerns@positscience.com&gt; - fix to hashCode for X509CertificateObject.

Stefan Meyer &lt;stefan.meyer@064ewe.de&gt; - backport for PKIXCertPathValidator and SMIMESignedMailReviewer.

Robert J. Moore &lt;Robert.J.Moore@allanbank.com&gt; - speedups for OpenPGPCFB mode, clean room JCE patches.

Rui Hodai &lt;ruis@064po.ntts.co.jp&gt; - speed ups for Camellia implementation, CamelliaLightEngine.

Emir Bucalovic &lt;emir.bucalovic@064mail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Torbjorn Svensson &lt;tobbe79@064gmail.com&gt; - initial implementation of Grain-v1 and Grain-128.

Paul FitzPatrick &lt;bouncycastle_pfitz@064fitpatrick.cc&gt; - error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.

Henrik Andersson &lt;k.henrik.andersson@064gmail.com&gt; - addition of UniqueIssuerID to certificate generation.

Cagdas Cirit &lt;cagdasciric@064gmail.com&gt; - fix for x509CertStoreSelector.

Harakiri &lt;harakiri_23@064yahoo.com&gt; - datahandler patch for attached parts in SMIME signatures.

Pedro Henriques &lt;pmahrenriques@064gmail.com&gt; - explicit bounds checking for DESKeyGenerator, code simplification for OAEPEncoding.

Lothar Kummeringer &lt;job@064kimmeringer.de&gt; - verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for SMIME API.

Richard Farr &lt;rarr.se@064gmail.com&gt; - initial SRP-6a implementation.

Thomas Castiglione &lt;castiglione@064au.ibm.com&gt; - patch to encoding for CRMF OptionalValidity.

Elisabetta Romani &lt;eromani@064soge.it&gt; - patch for recognising multiple counter signatures.

Robin Lundgren &lt;r737lundgren@064gmail.com&gt; - CMPCertificate constructor from X509CertificateStructure fix.

Petr Kadlec &lt;mormegil@centrum.cz&gt; - fix to sign extension key and IV problem in HC-128, HC-256.

Andreas Antener &lt;antener_a@064gmx.ch&gt; - fix to buffer reset in AsymmetricBufferedBlockCipher.

Harendra Rawat &lt;hsrawat@064yahoo.com&gt; - fix for BERConstructedOctetString.

Rolf Lindemann &lt;rolf@064trustcenter.de&gt; - patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].

Alex Artamonov &lt;alexart.home@064gmail.com&gt; - name look up patch for GOST-2001 parameters.

Mike Lyons &lt;mlyons@064layer7tech.com&gt; - work arounds for EC JDK bug 6738532 and JSSE EC
naming conventions.

Chris Cole &lt;chris_h_cole@yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Tomas Krivanek &lt;tom@064atack.cz&gt; added checking of Sender header to SignedMailValidator.

Michael &lt;emfau@064t-online.de&gt; corrected field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor@064cryptography.com&gt; added checking of constant time equals to avoid possible timing attacks.

Markus Kil&amp;aring;ns &lt;markus@064primekey.se&gt; made several enhancements to TimeStampResponseGenerator.

Dario Novakovic &lt;darionis@064yahoo.com&gt; fixed for NPE when checking revocation reason on CRL without extensions.

Michael Smith &lt;msmith@064cbnco.com&gt; fixed for NPE when checking revocation reason on CRL without extensions.

Chris Cole &lt;chris_h_cole@yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.

Michael &lt;emfau@064t-online.de&gt; corrected field error in getResponse method in CertRepMessage.

Trevor Perrin &lt;trevor@064cryptography.com&gt; added checking of constant time equals to avoid possible timing attacks.

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Michael Smith &lt;msmith@064cbnco.com&gt; fixed for NPE when checking revocation reason on CRL without extensions.

Petar Petrov &lt;p.petrov#064bers-soft.com&gt; Testing and debugging of UTF-8 OpenPGP passwords.

Daniel Fitzpatrick &lt;daniel.f.nwr#064gmail.com&gt; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.

Andy Neilson &lt;Andy.Neilson#064quest.com&gt; a further patches to deal with multiple providers and PEMReader.

Ted Shaw &lt;xiao.xj#064gmail.com&gt; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.

Eleriseth &lt;Eleriseth#064WPECGLtYbVi8Rl6Y7VzI2Lvd2EUVW99v3yNV3IWRG8.fms&gt; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.

Kenny Root &lt;kenny#064the-b.org&gt; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.

Maarten Bodewes &lt;maarten.bodewes#064gmail.com&gt; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.

Philip Clay &lt;pilf_b#064yahoo.com&gt; Initial implementation of J-PAKE.

Brian Carlstrom &lt;bdc#064carlstrom.com&gt; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.

Samuel Lid&eacute;n Borell &lt;samuel#064primekey.se&gt; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder.

Sergio Demian Lerner &lt;sergiolerner#064certimix.com&gt; pointing out isInfinity issue in ECDSASigner signature verification.

Tim Whittington &lt;Tim.Whittington#064orionhealth.com&gt; patch to remove extra init call in CMac, additional of Memorable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.

Marcus Lundblad &lt;marcus.lundblad#064primekey.se&gt; patch for working arnound JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.

Andrey Zhozhin &lt;zhozhin#064xm.ru&gt; patch for override of TSP SignerInfo attributes.

Sergey Tiunov &lt;t5555d#064gmail.com&gt; initial cut of DVCS classes.

Damian Kolasa &lt;fatfredyy#064gmail.com&gt; ASN1Sequence patch for class cast issue in X9Curve.

Ash Hughes &lt;ashley.hughes#064blueyonder.co.uk&gt; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().

Daniel Hirscher &lt;dev#064daniel-hirscher.de&gt; patch to support parsing of explicit EC parameters in PEM files.

Daniele Ricci &lt;daniele.athome#064gmail.com&gt; initial implementation of EC keys for OpenPGP and RFC6637 support.

Matti Aarnio &lt;matti.aarnio#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes,
Babak Najafi &lt;bnajafi@akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.

Eric M&amp;uuml;ller &lt;eric.mueller@064sage.de&gt;: additional standard algorithm name lookups in JcaPEMKeyConverter.

Mathias Herberts &lt;Mathias.Herberts@064gmail.com&gt;: fix to inOff usage in RFC3394WrapEngine.

Daniil Ivanov &lt;daniil.ivanov@064gmail.com&gt;: addition of provider support for GOST HMAC SecretKeyFactory.

Daniele Grasso &lt;daniele.grasso@064gmail.com&gt;: contributions to final Key calculation code for SRP6.

Andrey Utkin &lt;cindrhc@064gmail.com&gt;: patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.

Arnis Tartu &lt;arnis@064ut.ee&gt;: checker for generated key vs OID in JceCMSContentEncryptorBuilder.

AxelVDB &lt;axel-vdb@risep.net&gt;: initial implementation of Shacal2.

Roberto Tyley &lt;rtyley@064riseup.net&gt;: further work on completing gradle build.

Waldemar Dick &lt;wDick@064devmue.de&gt;: code improvement in x500 ASN.1 package.

Sid Steward &lt;sid.steward@064pdflabs.com&gt;: code improvements to ASN1Boolean.

Alex Klyubin &lt;aklyubin@064google.com&gt;: AlgorithmParameters check for EC key agreement.

Jonathan Gillett &lt;gsoc.student@064gmail.com&gt;: Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.

Andreas Reiter &lt;andreas.reiter@064ria.it@tugraz.at&gt;: Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.

Kieran Miller &lt;kieran.miller@064gmail.com&gt;: initial implementation for RFC 5649 key wrap with padding.

Oliver Ehli &lt;ehli@064arago.de&gt;: Additional support for BSI plain ECDSA in the provider.

Daniel Heldt &lt;Daniel.Heldt@064cryptovision.com&gt;: Initial support for encodable state message digests.

Robert Bushman &lt;bouncycastle@064traxel.com&gt;: Clean up of DirectKeySignature example.

Maurice Aarts &lt;maarts@064riscure.com&gt;: updated to KDF generator to follow NIST SP 800-108.

Franziskus Kiefer &lt;f.kiefer@064riscure.com&gt;: initial implementation of Cramer-Shoup.

KB Sriram &lt;mail_kb@yahoo.com&gt;: testing for odd encodings for PGP User Attribute Subpackets.

Marco Schulze &lt;marco@064nightlabs.de&gt;: Reported verification bug in GenericSigner.


dstutz &lt;https://github.com/dstutz&gt;: added iteration count setters to PKCS#12 PBE mac/key generator builders.

Tobias Wich &lt;tobias.wich@064ecsec.de&gt;: Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.

Hauke Mehrtens &lt;hauke@064hauke-m.de&gt;: TLS patch to add ECDHE_ECDSA CCM ciphersuites from RFC 7251.

Daniel Zimmerman &lt;dmz@064galois.com&gt;: Further key quality improvements to RSAKeyPairGenerator.

Jens Kapitza &lt;jt.kapitza@064schwarze-allianz.de&gt;: Iterable support in OpenPGP API, code cleanup in OpenPGP API.

Johan Eklund &lt;johan@064primekey.se&gt;: update to RFC 6960 for OCSPObjectIdentifiers.

nikosn &lt;https://github.com/nikosn&gt;: Fix to encoding of EC private keys to ensure encoding matches order length.
Axel von dem Bruch &lt;axel-vdb@riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>

Derek Atkins &lt;derek@064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>

Peter Jr Halicky &lt;peto@064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>

lartiguePierre &lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>

Thomas Belot &lt;thomas.belot+BC@064gmail.com&gt; Initial CertPathLoopTest for demonstrating stack overflow issue.</li>

Rich DiCroce &lt;https://github.com/rdcroce&gt; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>

Bj&amp;ouml;rn Kautler &lt;https://github.com/Vampire&gt; Refinements to cert path validation (authority key addition, certificate order preservation).</li>

Dominik Sch&amp;uuml;rmann &lt;https://github.com/dschuermann&gt; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>

Michael &lt;MSKnete@064web.de&gt; Initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>

Tobias Wagner &lt;https://github.com/dallotTazTag&gt; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>

Jan Willem Janssen &lt;j.w.janssen+bouncycastle@064xtreme.nl&gt; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>

Sebastian Oerding &lt;sebastian.oerding@robotron.de&gt; Fixes to toString() in x.509.CertificatePolicies.</li>

Kai Kramer &lt;kai.kramer@064gmail.com&gt; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>

Benoit Charles &lt;benoit.charles@064opentrust.com&gt; Fix for IES data length check on decryption.</li>

Niko &lt;nfink95@064gmail.com&gt; Fix to cast issue in getOutputSize() for ECIES.</li>

akwizgran &lt;https://github.com/akwizgran&gt; Fixed clone of key in Blake2bDgest copy constructor, Blake2b reset issue for variant keys.</li>

Matthias Edelhoff &lt;Matthias.Edelhoff@cryptovision.com&gt; BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>

Lukasz Deputat &lt;lukasz.deputat@064gmail.com&gt; Fixed bugs in TsIsUtils read methods.</li>

Justin Ludwig &lt;https://github.com/justinludwig&gt; Iterator fix for PGPOactoryFactory to handle stream packets at start of iterated data.</li>

Andr&amp;eacute; Caeutre &lt;berenguel&lt;https://github.com/berenguel&gt; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>

Slawomir Jaranowski &lt;https://github.com/slawekjaranowski&gt; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>

Andrey Vasilyev &lt;https://github.com/andrey-vasilyev&gt; Initial implementation of GOST R 34.11-2012.</li>

William Glanton &lt;wglanton77@064gmail.com&gt; Fixed bug in Poly1305.</li>

jdvorak001@https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.
Joseph Naegele &lt;jnaegele@grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.


The Google Security Team (Project WycheProof) &lt;https://google/wycheproof&gt; defect analysis and additional test cases for the provider.

Gorka Irazoqui &lt;girazoki@064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.

Joerg Senekowitsch &lt;joerg.senekowitsch@064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.

Alexander Krivoshta &lt;wipe@064ya.ru&gt; N4 calculation fix to GOFB mode.

Artem Storozhuk &lt;storozh72@064gmail.com&gt; N4 calculation fix to GOFB mode.

Na Yu &lt;na.yu@064samsung.com&gt; Constructor patches to CMC PKIData.

Evangelos Karatsiolis &lt;ekaratsiolis@064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.

VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McEllieceCCA2PrivateKeyParameters.

mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.


Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.

didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.

Mike Safonov &lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for lightweight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.

Artem Storozhuk &lt;storozh72@064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.

Andreas Glaser &lt;andreas.glaser@064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.

codeborne &lt;https://github.com/chxp&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.

FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.

4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.

ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.

jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2**64-127 to 2**64.

str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s.

Scott Woodward &lt;scott@064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.

David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.

chris mccown &lt;0xchrismccown@gmail.com&gt; identification of serialisation issue with XMSS/XMSS-MT private keys (see also CVE-2018-1000613).

ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.

Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion().

Armin Lunkeit, Michael Tautenhahn &lt;@&gt; identification of M-R test issue on higher certainty values in RSA key pair generation.

Vincent Breitmoser &lt;https://github.com/Valodim&gt; fix to ignore unnecessary checksum calculator on PGP
secret key encryption.</li>

.Adam Vartanian &lt;https://github.com/flooey&gt;: use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>

.Bernd &lt;https://github.com/ecki&gt;: Fix to make PGPUtility.pipeFileContents use buffer and not leak file handle.</li>

.Shartung &lt;https://github.com/shartung&gt;: Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>

.Paul Schaub &lt;https://github.com/vanitasvitae&gt;: bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>

.Nick of Nexxar &lt;https://github.com/nros&gt;: update to OpenPGP package to handle a broader range of EC curves.</li>

.catbref &lt;https://github.com/catbref&gt;: sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>

.gerlion &lt;https://github.com/gerlion&gt;: detection of concurrency issue with pre-1.60 EC math library.</li>

.fgrieu &lt;https://github.com/fgrieu&gt;: identification and suggested fixes for possible timing vulnerability in OAEPEncoding and RSACoreEngine.</li>

.MTG &lt;https://github.com/mtgag&gt;: patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>

.Andreas Gadermaier &lt;https://github.com/libcwe&gt;: initial version of Argon2 PBKDF algorithm.</li>


.Vincent Bouckaert &lt;https://github.com/veebhee&gt;: initial version of RFC 4998 ASN.1 classes.</li>

.Gabriel Sroka &lt;https://github.com/gabrielsroka&gt;: corrected comments in RSA validation.</li>

.sarah-mdv &lt;https://github.com/sarah-mdv&gt;: improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>


.Gilis95 &lt;https://github.com/Gilis95&gt;: improved JSS compatibility for setEnabledCipherSuites.</li>


.Tony Washer &lt;https://github.com/tony.washer@yahoo.co.uk&gt;: review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>

.Vincent Bouckaert &lt;https://github.com/veebhee&gt;: initial version of RFC 4998 ASN.1 classes.</li>

.Tony Washer &lt;https://github.com/tony.washer@yahoo.co.uk&gt;: review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>

.Gilis95 &lt;https://github.com/Gilis95&gt;: improved JSS compatibility for setEnabledCipherSuites.</li>


.Moses Palm&amp;eacute;r, TrueSec &lt;https://github.com/truesec&gt;: Additional improvements to constant time comparisons.</li>

.Ren&amp;eacute; Korthaus &lt;https://github.com/securitykernel&gt;: Update to XMS/XMS*MT OID values to bring them in line with RFC 8391.</li>

.THausherr &lt;https://github.com/THausherr&gt;: Addition generic support for CMS/TSP functions.</li>

.Gaylor Bosson &lt;https://github.com/Gilthoniel&gt;: Initial implementation of Blake2xs.</li>

.gaellalire &lt;https://github.com/gaellalire&gt;: Patch for unprotected PGP private keys as SExpr.</li>


.Nick hitchan &lt;https://github.com/nick&lt;i&gt;: Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>

.dbusche &lt;https://github.com/dbusche&gt;: Argon2 optimisations.</li>

.Daniel Heldt &lt;https://github.com/dheldt&gt;: Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>

.Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt;: Fix for initially bugged legacy
Integers.numberOfLeadingZeros method.

- Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.
- aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.
- Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.
- vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.
- Tobias Ospelt &lt;tobias@064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.

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1.2348 berkeley-db 5.3.28-r1

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1.2351 util-linux 2.31.1 0.4ubuntu3.7

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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1.2356 patch 2.7.6 6

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Previous maintainers were Bill Mitchell <mitchell@mdd.comm.mot.com>,
Darren Stalder <torin@daft.com>, Adrian Bunk <bunk@fs.tum.de>,
Michael Fedrowitz <michaelf@debian.org> and Christoph Berg <myon@debian.org>.

The upstream source is available at 'ftp://ftp.gnu.org/gnu/patch/', resp.
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cd <LICENSE_TOOL_PATH>/bin/run_license_job.bash -i /tmp/jars -l <SRC_PATH>/licenses -n <SRC_PATH>/notices -h <SRC_PATH>/licenses-and-notices.html -o /tmp/overrides
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The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on Tue, 17 Mar 2015.

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1.2364 lm-sensors 5.0.0

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* Frodo Looijaard
  Original author of libsensors, sensors-detect, sensors and isadump.
* Merlin Hughes
  Original author of sensord.
* Bob Schlaermann
  Dynamic chip feature detection (a.k.a. generic chip support) in
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  Many improvements to the libsensors configuration file scanner.
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  New libsensors API, and migration of sensors and sensord thereto.
  Many optimizations in libsensors and sensors.
  Configuration file converter.
  Rewrite of sensors-detect.
  Support for multiple configuration files in libsensors.

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Marko Kreen

Fortuna in libhcrypto

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vis.c in libbroken

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AES in libhcrypto

rijndael-alg-fst.c

version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
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kdc/announce.c

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DES core in libhcrypto

D3DES (V5.09) -

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Written with Symantec's THINK (Lightspeed) C by Richard Outerbridge. Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.


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lib/hcrypto/test_dh.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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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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<td>KHR/khrplatform.h</td>
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The following artifacts are EPL and ASL2.
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The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish
Oracle

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

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl
MortBay

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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
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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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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```
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1.2386 liggitt-tabwriter 0.0.0-20181228230101-89fcab3d43de

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1.2387 logstash-filter-useragent 3.3.3

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1.2388 zlib 1.2.11.dfsg-2ubuntu1.2

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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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jlooup@gzip.org          madler@alumni.caltech.edu

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

1.2389 jackson-databind 2.12.3
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1.2390 zstd 1.4.4+dfsg-3ubuntu0.1
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* command :
* $ ./checkTag tag
* checkTag validates tags of following format : v[0-9].[0-9].[0-9]{any}*/
* The tag is then compared to zstd version number.
* They are compatible if first 3 digits are identical.
* Anything beyond that is free, and doesn't impact validation.
* Example : tag v1.8.1.2 is compatible with version 1.8.1
* When tag and version are not compatible, program exits with error code 1.
* When they are compatible, it exists with a code 0.
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*/

1.2391 curl 7.58.0 2ubuntu3.13

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jar/jnr/ffi/byref/AbstractNumberReference.java
* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/AbstractReference.java
* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/Type.java
* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/Memory.java

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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/mapper/CompositeFunctionMapper.java
* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/mapper/BufferParameterStrategy.java
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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/types/int8_t.java
* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/LibraryLoader.java
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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/provider/jffi/ClosureFromNativeConverter.java
* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/provider/jffi/TransientNativeMemory.java
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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/provider/converters/Pointer32ArrayParameterConverter.java
* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/mapper/CompositeTypeMapper.java
* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/mapper/SignatureTypeMapperAdapter.java
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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr ffi TypeAlias.java
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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr ffi provider/converters/BoxedByteArrayParameterConverter.java
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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr ffi provider/InvalidRuntime.java
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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/mapper/AbstractDataConverter.java
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* /opt/cola/permits/1257321172_1642800596.61/0/jnr-ffi-2-2-8-sources-jar/jnr/ffi/util/ref/FinalizableReferenceQueue.java

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1.2397 xstrings 1.3.2

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1.2398 base-files 10.1ubuntu2.8

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**1.2405 cyrus-sasl 2.1.27+dfsg-2ubuntu0.1**

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 * Tim Martin
 * Rob Earhart
 * Rob Siemborski
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* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/tree/ParseTreeVisitor.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/ANTLRErrorListener.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/tree/xpath/XPathTokenElement.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/OrderedATNConfigSet.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/NotSetTransition.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LookaheadEventInfo.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LexerMoreAction.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/InterpreterRuleContext.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LexerATNSimulator.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LexerMoreAction.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LexerPopModeAction.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
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jar/org/antlr/v4/runtime/atn/OrderedATNConfigSet.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LookaheadEventInfo.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/atn/LexerMoreAction.java
* /opt/cola/permits/1152298578_1618215449.54/0/antlr4-runtime-4-9-2-sources-
jar/org/antlr/v4/runtime/InterpreterRuleContext.java
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jar/org/antlr/v4/runtime/misc/EqualityComparator.java
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jar/org/antlr/v4/runtime/tree/xpath/XPathLexer.java
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1.2408 metrics-annotation 4.1.16
1.2408.1 Available under license :
Apache-2.0

1.2409 perl 5.26.1 6ubuntu0.5
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

--------------------------------------------
---
abstract: 'Build and install Perl modules'
author:
- 'Ken Williams <kwilliams@cpan.org>'
- "Development questions, bug reports, and patches should be sent to the\n  Module-Build mailing list at <module-build@perl.org>.'
build_requires:
  File::Temp: 0.15
  Test::Harness: 3.16
  Test::More: 0.49
generated_by: 'Module::Build version 0.3608'
license: gpl
meta-spec:
  url: http://module-build.sourceforge.net/META-spec-v1.4.html
  version: 1.4
name: Module-Build
resources:
  MailingList: mailto:module-build@perl.org
license: http://dev.perl.org/licenses/
repository: http://github.com/dagolden/module-build/
version: 3
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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
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school, if any, to sign a "copyright disclaimer" for the program, if
necessary. Here a sample; alter the names:

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

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

That's all there is to it!

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The End
#!/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
Optionally you can pass the C<--now> option to check they are at the current year. This isn’t checked by default, so that it doesn’t fail for people working on older releases. It should be run before making a new release.

=cut

use strict;
use Config;
BEGIN { require './test.pl' }

if ( $Config{usecrosscompile} ) {
    skip_all( "Not all files are available during cross-compilation" );
}

my ($opt) = @ARGV;

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}
# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', '../README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    # Extract the year from the copyright message
    my $year = $copyright_msg =~ /\d{4}\b/;  # Extract the year
    return $year;

}
my ($year) = $copyright_msg =~ /.*\d{4,}/s
    or die "Year not found in README copyright message '$copyright_msg'';

$year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

my $output = runperl switches => ['-v'];
my ($year) = $output =~ /copyright 1987.*\d{4,}/i
    or die "Copyright statement not found in perl -v output '$output'';

$year;
}

1.2410 purell 1.1.1
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1.2411 libseccomp 2.3.3-4

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1.2412 logstash-output-null 3.0.5

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1.2413 googleapis-gnostic 0.4.1

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* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/util/CapacityManager.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/handlers/IRequestHandler2.java

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* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
jar/com/amazonaws/protocol/json/SdkStructuredJsonFactory.java
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* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/auth/RegionAwareSigner.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/util/Base64.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/auth/ServiceAwareSigner.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/util/CodecUtils.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/util/Base16.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/auth/ServiceAwareSigner.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/util/ResetException.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/regions/internal/SdkDigestInputStream.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/AbortedException.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
  jar/com/amazonaws/util/Base32.java
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* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/internal/Releasable.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/profile/internal/securitytoken/STSProfileCredentialsServiceLoader.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/internal/SdkSSLSocket.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/event/DeliveryMode.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/util/LengthCheckInputStream.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/internal/AWS4SignerUtils.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/internal/SignerConstants.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/profile/ProfilesConfigFile.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/util/Platform.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/config/FIFOCache.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/profile/ProfileProcessCredentialsProvider.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/profile/BasicProfileConfigLoader.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/profile/internal/securitytoken/ProfileCredentialsService.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/event/SdkInputStream.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/internal/BoundedLinkedHashMap.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/internal/DelegateSSLSocket.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/event/ProgressTracker.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/profile/internal/AbstractProfilesConfigFileScanner.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/profile/Internal/ProfilesConfigFileWriter.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/event/request/ProgressSupport.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/internal/AWS4SignerRequestParams.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/auth/internal/SignerKey.java
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* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/regions/RegionMetadataProvider.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/partitions/model/Service.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/protocol/json/SdkStructuredIonFactory.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/regions/LegacyRegionXmlLoadUtils.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/regions/RegionImpl.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/http/apache/SdkProxyRoutePlanner.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/transform/SimpleTypeCborUnmarshallers.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/partitions/model/CredentialScope.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/partitions/RegionImpl.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/http/apache/SdkProxyRoutePlanner.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/protocol/json/SdkIonGenerator.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/partitions/model/Partition.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/partitions/PartitionRegionImpl.java
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* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-jar/com/amazonaws/internal/ResettableInputStream.java
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*/
/**
* Interface for providing AWS credentials. Implementations are free to use any
* strategy for providing AWS credentials, such as simply providing static
* credentials that don't change, or more complicated implementations, such as
* integrating with existing key management systems.
*/

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/**
 * Interface for providing AWS region information. Implementations are free to use any strategy for
 * providing region information.
 */

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jar/com/amazonaws/AmazonClientException.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
jar/com/amazonaws/transform/Unmarshaller.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
jar/com/amazonaws/transform/SimpleTypeUnmarshallers.java
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jar/com/amazonaws/util/XmlUtils.java
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* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources-
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jar/com/amazonaws/auth/SignatureVersion.java
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* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources.jar/com/amazonaws/internal/config/JsonIndex.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources.jar/com/amazonaws/internal/config/Builder.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources.jar/com/amazonaws/util/ImmutableMapParameter.java
* /opt/ws_local/PERMITS_SQL/1092324362_1600717635.8/0/aws-java-sdk-core-1-11-749-sources.jar/com/amazonaws/internal/config/SignerConfig.java

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*=*. org *=*

#+TITLE: List of code with permissive licenses as used by GnuPG.
#+STARTUP: showall

* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

---------------------------------------------------------------------
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1.2420 urllib3 1.24.1

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# Contributions to the urllib3 project

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

* niphlod <niphlod@gmail.com>
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  * Response gzip and deflate encoding support
  * Better unicode support for filepost using StringIO buffers

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* 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 Figovskiy <boris.figovskiy@ravellosystems.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 Vandenberg <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

* Jesse 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_forceclist 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 Jesse Shapiro) <jshapiro@akamai.com>
  * Ongoing maintenance

* 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

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

---

**1.2421 musl 1.1.24-r9**

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* /opt/cola/permits/1162678523_1620891805.46/0/google-http-client-1-39-2-sources-
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* /opt/cola/permits/1162678523_1620891805.46/0/google-http-client-1-39-2-sources-
jar/com/google/api/client/http/HttpRequestFactory.java
* /opt/cola/permits/1162678523_1620891805.46/0/google-http-client-1-39-2-sources-
jar/com/google/api/client/testing/http/UnsuccessfulResponseHandler.java
* /opt/cola/permits/1162678523_1620891805.46/0/google-http-client-1-39-2-sources-
jar/com/google/api/client/json/JsonString.java
* /opt/cola/permits/1162678523_1620891805.46/0/google-http-client-1-39-2-sources-
jar/com/google/api/client/util/ArrayValueMap.java
* /opt/cola/permits/1162678523_1620891805.46/0/google-http-client-1-39-2-sources-
jar/com/google/api/client/http/UriTemplate.java
* /opt/cola/permits/1162678523_1620891805.46/0/google-http-client-1-39-2-sources-
jar/com/google/api/client/http/ByteArrayContent.java
* /opt/cola/permits/1162678523_1620891805.46/0/google-http-client-1-39-2-sources-
jar/com/google/api/client/http/AbstractHttpContent.java
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Version 2, June 1991

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1.2443 py3-html5lib 1.0.1-r4
1.2443.1 Available under license:
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1.2444 urllib3 1.26.6-1.ph1
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1.2445 jinja2 3.1.1
1.2445.1 Available under license:
No license file was found, but licenses were detected in source scan.

[metadata]
name = Jinja2
version = attr: jinja2.__version__
url = https://palletsprojects.com/p/jinja/
project_urls =
  Donate = https://palletsprojects.com/donate
  Documentation = https://jinja.palletsprojects.com/
  Changes = https://jinja.palletsprojects.com/changes/
  Source Code = https://github.com/pallets/jinja/
  Issue Tracker = https://github.com/pallets/jinja/issues/
  Twitter = https://twitter.com/PalletsTeam
  Chat = https://discord.gg/pallets
license = BSD-3-Clause
license_files = LICENSE.rst
author = Armin Ronacher
author_email = armin.ronacher@active-4.com
maintainer = Pallets
maintainer_email = contact@palletsprojects.com
description = A very fast and expressive template engine.
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
  Development Status :: 5 - Production/Stable
  Environment :: Web Environment
  Intended Audience :: Developers
  License :: OSI Approved :: BSD License
  Operating System :: OS Independent
  Programming Language :: Python
  Topic :: Internet :: WWW/HTTP :: Dynamic Content
  Topic :: Text Processing :: Markup :: HTML

[options]
packages = find:
  package_dir = = src
include_package_data = True
python_requires = >= 3.7

[options.packages.find]
where = src

[options.entry_points]
babel.extractors =
  jinja2 = jinja2.ext:babel_extract[i18n]

[tool:pytest]
testpaths = tests
filterwarnings =
  error
ignore:The loop argument:DeprecationWarning:asyncio[.]base_events:542

[coverage:run]
branch = True
source =
  jinja2
tests

[coverage:paths]
source =
  src
*/site-packages

[flake8]
select = B, E, F, W, B9, ISC
ignore =
  E203
  E501
  E722
W503
max-line-length = 80
per-file-ignores =
src/jinja2/__init__.py: F401

[mypy]
files = src/jinja2
python_version = 3.7
show_error_codes = True
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete_defs = True
no_implicit_optional = True
local_partial_types = True
no_implicit_reexport = True
strict_equality = True
warn_redundant_casts = True
warn_unused_configs = True
warn_unused_ignores = True
warn_return_any = True
warn_unreachable = True

[mypy-jinja2.defaults]
no_implicit_reexport = False

[mypy-markupsafe]
no_implicit_reexport = False

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1294896550_1649056963.72/0/jinja2-3-1-1-tar-gz/Jinja2-3.1.1/setup.cfg
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1294896550_1649056963.72/0/jinja2-3-1-1-tar-gz/Jinja2-3.1.1/LICENSE.rst
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: Jinja2
Version: 3.1.1
Summary: A very fast and expressive template engine.
Home-page: https://palletsprojects.com/p/jinja/
Author: Armin Ronacher
Author-email: armin.ronacher@active-4.com
Maintainer: Pallets
Maintainer-email: contact@palletsprojects.com
License: BSD-3-Clause
Project-URL: Changes, https://jinja.palletsprojects.com/changes/
Project-URL: Twitter, https://twitter.com/PalletsTeam
Project-URL: Chat, https://discord.gg/pallets
Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Text Processing :: Markup :: HTML
Jinja
=====

Jinja is a fast, expressive, extensible templating engine. Special placeholders in the template allow writing code similar to Python syntax. Then the template is passed data to render the final document.

It includes:

- Template inheritance and inclusion.
- Define and import macros within templates.
- HTML templates can use autoescaping to prevent XSS from untrusted user input.
- A sandboxed environment can safely render untrusted templates.
- AsyncIO support for generating templates and calling async functions.
- I18N support with Babel.
- Templates are compiled to optimized Python code just-in-time and cached, or can be compiled ahead-of-time.
- Exceptions point to the correct line in templates to make debugging easier.
- Extensible filters, tests, functions, and even syntax.

Jinja's philosophy is that while application logic belongs in Python if possible, it shouldn't make the template designer's job difficult by restricting functionality too much.

Installing
----------

Install and update using `pip`:

.. code-block:: text

    $ pip install -U Jinja2


In A Nutshell
-------------
.. code-block:: jinja

{% extends "base.html" %}
{% block title %}Members{% endblock %}
{% block content %}
<ul>
{% for user in users %}
<li><a href="{{ user.url }}">{{ user.username }}</a></li>
{% endfor %}
</ul>
{% endblock %}

Donate
------

The Pallets organization develops and supports Jinja and other popular packages. In order to grow the community of contributors and users, and allow the maintainers to devote more time to the projects, `please donate today`_.

.. _please donate today: https://palletsprojects.com/donate

Links
-----

- Documentation: https://jinja.palletsprojects.com/
- Changes: https://jinja.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/Jinja2/
- Source Code: https://github.com/pallets/jinja/
- Issue Tracker: https://github.com/pallets/jinja/issues/
- Website: https://palletsprojects.com/p/jinja/
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets

Found in path(s):
* /opt/cola/permits/1294896550_1649056963.72/0/jinja2-3-1-1-tar-gz/Jinja2-3.1.1/src/Jinja2.egg-info/PKG-INFO
* /opt/cola/permits/1294896550_1649056963.72/0/jinja2-3-1-1-tar-gz/Jinja2-3.1.1/PKG-INFO

1.2446 unzip 6.0-21ubuntu1.1

1.2446.1 Available under license :

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FIRST NOTE:
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There are currently two explicit copyrights on portions of UnZip code (at least, of which Info-ZIP is aware): Jim Luther's Mac OS File Manager interface code; and Christopher Evans' MacBinaryIII coding code (for the MacOS port). These copyrights are discussed in more detail below.

All remaining code is now (starting with UnZip version 5.41) covered by the new Info-ZIP license. For details, please read the accompanying file LICENSE. The terms and conditions in this license supersede the copyright conditions of the contributions by Igor Mandrichenko (vms/vms.c), Greg Roelofs (zipinfo.c, new version of unshrink.c), Mike White (Windows DLL code in "windll/*"), Steve P. Miller (Pocket UnZip GUI "wince/*"), and Mark Adler (inflate/explode decompression core routines, previously put into the public domain). All these Info-ZIP contributors (or "primary" authors) have permitted us to replace their copyright notes by the Info-ZIP License.

Frequently Asked Questions regarding (re)distribution of Zip and UnZip are near the end of this file.

There are no known patents on any of the code in UnZip. Unisys claims a patent on LZW encoding and on LZW decoding _in an apparatus
that performs LZW encoding, but the patent appears to exempt a stand-
alone decoder (as in UnZip's unshrink.c). Unisys has publicly claimed
otherwise, but the issue has never been tested in court. Since this
point is unclear, unshrinking is not enabled by default. It is the
responsibility of the user to make his or her peace with Unisys and
its licensing requirements. (unshrink.c may be removed from future
releases altogether.)

The original unzip source code has been extensively modified and
almost entirely rewritten (changes include random zipfile access
rather than sequential; replacement of unimplode() with explode();
replacement of old unshrink() with new (unrelated) unshrink(); re-
placement 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
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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
* 
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* with significant code contributions by Nitin Ganatra
* (Apple Macintosh Developer Technical Support Emeritus)
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* Basic encoding and decoding of Macintosh files to the MacBinary III spec.
* ----------------------------------------------------------------------
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"He says that he thought that whoever contacted him understood that he has no objection to the Info-ZIP group's inclusion of his code. His primary concern is that it remain freely distributable, he said."

Despite the fact that our "normal" code has been entirely rewritten and by default no longer contains any of Mr. Smith's code, Info-ZIP remains indebted and grateful to him. We hope he finds our contributions as useful as we have his.

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-----

The remaining code was written by many people associated with the
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.

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

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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https://github.com/golang/protobuf

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/opt/cola/permits/1208967433_1632976006.51/0/netty-resolver-4.1-68-final-sources.jar/io/netty/resolver/HostsFileParser.java
/opt/cola/permits/1208967433_1632976006.51/0/netty-resolver-4.1-68-final-sources.jar/io/netty/resolver/DefaultNameResolver.java
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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Parser.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/ScriptEngine.java
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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/DefaultExpander.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/completer/AggregateCompleter.java
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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/EOFError.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/SyntaxError.java

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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/LineReader.java
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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/completer/StringsCompleter.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/ConfigurationPath.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Editor.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/DefaultHighlighter.java

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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/Buffer.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/BufferImpl.java

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* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/CompletingParsedLine.java
* /opt/cola/permits/1258291874_1643053104.67/0/jline-reader-3-14-1-sources-jar/org/jline/reader/impl/completer/FileNameCompleter.java

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* Guy Boertje (guyboertje)

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1.2465 lcms 1.19.dfsg-1.2ubuntu5.1

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* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/x_user_defined.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/tests.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/labels.py
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-
  0.5.1/webencodings/__init__.py
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from setuptools import setup, find_packages
import io
from os import path
import re

VERSION = re.search("VERSION = '([^']+)'", io.open
    path.join(path.dirname(__file__), 'webencodings', '__init__.py'),
    encoding='utf-8'
).read().strip()).group(1)

LONGDESCRIPTION = io.open(
path.join(path.dirname(__file__), 'README.rst'), encoding='utf-8').read()

setup(
    name='webencodings',
    version=VERSION,
    url='https://github.com/SimonSapin/python-webencodings',
    license='BSD',
    author='Simon Sapin',
    author_email='simon.sapin@exyr.org',
    maintainer='Geoffrey Sneddon',
    maintainer_email='me@gsnedders.com',
    description='Character encoding aliases for legacy web content',
    long_description=LONG_DESCRIPTION,
    classifiers=[
        'Development Status :: 4 - Beta',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Programming Language :: Python',
        'Programming Language :: Python :: 2',
        'Programming Language :: Python :: 2.6',
        'Programming Language :: Python :: 2.7',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.3',
        'Programming Language :: Python :: 3.4',
        'Programming Language :: Python :: 3.5',
        'Programming Language :: Python :: 3.6',
        'Programming Language :: Python :: Implementation :: CPython',
        'Programming Language :: Python :: Implementation :: PyPy',
        'Topic :: Internet :: WWW/HTTP',
    ],
    packages=find_packages(),
)

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5-1-1-tar-gz/webencodings-0.5.1/setup.py

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==

webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~

Regenerate the webencodings.labels module.

:copyright: Copyright 2012 by Simon Sapin
import json
try:
    from urllib import urlopen
except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""
    ...]

webencodings.labels
~~~~~~~~~~~~~~

Map encoding labels to their name.

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# XXX Do not edit!
# This file is automatically generated by mklabels.py

LABELS = {
    "":
    [labels = [
        (repr(assert_lower(label)).lstrip('u'),
        repr(encoding['name']).lstrip('u'))
        for category in json.loads(urlopen(url).read().decode('ascii'))
        for encoding in category['encodings']
        for label in encoding['labels']]
    max_len = max(len(label) for label, name in labels)
    parts.extend(
        ', ' * (max_len - len(label)), name)
        for label, name in labels)
    parts.append('}
    return "'.join(parts)
if __name__ == '__main__':
    print(generate('http://encoding.spec.whatwg.org/encodings.json'))

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0-5-1-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py

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Metadata-Version: 1.1
Name: webencodings
Version: 0.5.1
Summary: Character encoding aliases for legacy web content
Home-page: https://github.com/SimonSapin/python-webencodings
Author: Geoffrey Sneddon
Author-email: me@gsnedders.com
License: BSD
Description: python-webencodings

This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker: https://github.com/gsnedders/python-webencodings
* PyPI releases: http://pypi.python.org/pypi/webencodings
* License: BSD
* Python 2.6+ and 3.3+

In order to be compatible with legacy web content
when interpreting something like ``Content-Type: text/html; charset=latin1``,
tools need to use a particular set of aliases for encoding labels
as well as some overriding rules.
For example, ``US-ASCII`` and ``iso-8859-1`` on the web are actually
aliases for ``windows-1252``, and an UTF-8 or UTF-16 BOM takes precedence
over any other encoding declaration.
The Encoding standard defines all such details so that implementations do
not have to reverse-engineer each other.

This module has encoding labels and BOM detection,
but the actual implementation for encoders and decoders is Pythons.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
This is a Python implementation of the `WHATWG Encoding standard`_

<http://encoding.spec.whatwg.org/>_.

* Latest documentation: http://packages.python.org/webencodings/
* Source code and issue tracker:
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1.2469 prometheus-common 0.31.1

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Eclipse

The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL 2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

------

Oracle

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

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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

------

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

------

Apache
The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

------
MortBay

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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

------
Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

org.eclipse.jetty.toolchain:jetty-schemas

------
Assorted

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1.2480 jackson-dataformat-yaml 2.13.2
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 * *
 * @param spanAttributes the attributes to stamp on every span. Should include things like library
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 */

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* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/tracing/ApiTracer.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/ApiStreamObserverAdapter.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/batching/BlockingSemaphore.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/largrunning/OperationFutures.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/StateCheckingResponseObserver.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/WatchdogServerStreamingCallable.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/retrying/StreamingRetryAlgorithm.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/tracing/TracedUnaryCallable.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/AccumulatingStreamObserver.java
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* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/internal/Headers.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/Watchdog.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/FixedWatchdogProvider.java
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/opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/core/GaxProperties.java
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/opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/CancelledException.java
/opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/FirstElementCallable.java
/opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/testing/FakeCallContext.java
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* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/core/BackgroundResource.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/batching/TrackedFlowController.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/longrunning/OperationTimedPollAlgorithm.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/retrying/ExponentialPollAlgorithm.java
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* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/AbortedException.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/AlreadyExistsException.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/retrying/BasicRetryingFuture.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/NotFoundException.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/UnauthenticatedException.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/batching/Semaphore64.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/testing/FakeOperationApi.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/testing/FakeStatusException.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/RetryAlgorithm.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/FixedTransportChannelProvider.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/FakeOperationSnapshot.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/ServerStreamIterator.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/core/BackgroundResourceAggregation.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/core/NoCredentialsProvider.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/FixedTransportChannelProvider.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/RecheckingCallable.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/AsyncTaskException.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/OperationCheckingCallable.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/retrying/TimedRetryAlgorithm.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/SpoolingResponseObserver.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/TranslatingUnaryCallable.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/PermissionDeniedException.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/testing/FakePagedApi.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/batching/RequestBuilder.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/PageContext.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/testing/FakeSimpleApi.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/FailedPreconditionException.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/ApiExceptionFactory.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/rpc/OutOfRangeException.java
* /opt/cola/permits/1244677304_1639751394.68/0/gax-1-66-0-sources-jar/com/google/api/gax/core/BaseBackgroundResource.java

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* /opt/cola/permits/1339752493_1654599307.9599082/0/aws-java-sdk-sts-1-11-749-sources-jar/com/amazonaws/auth/ShouldDoAsyncSessionRefresh.java
* /opt/cola/permits/1339752493_1654599307.9599082/0/aws-java-sdk-sts-1-11-749-sources-jar/com/amazonaws/auth/ShouldDoBlockingSessionRefresh.java

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* /opt/cola/permits/1339752493_1654599307.9599082/0/aws-java-sdk-sts-1-11-749-sources-jar/com/amazonaws/services/securitytoken/RegionalEndpointsOptionResolver.java

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*/
/**
** *
* <p>
* An IAM policy in JSON format that you want to use as an inline session policy.
* </p>
* <p>
* You must pass an inline or managed <a
* href="https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html#policies_session">session policy</a>
* to this operation. You can pass a single JSON policy document to use as an inline session policy. You can also
* specify up to 10 managed policies to use as managed session policies.
* </p>
* <p>
* This parameter is optional. However, if you do not pass any session policies, then the resulting federated user
* session has no permissions.
* </p>
* <p>
* When you pass session policies, the session permissions are the intersection of the IAM user policies and the
* session policies that you pass. This gives you a way to further restrict the permissions for a federated user.
* You cannot use session policies to grant more permissions than those that are defined in the permissions policy
* of the IAM user. For more information, see <a
* href="https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html#policies_session">Session Policies</a>
* in the <i>IAM User Guide</i>.
* </p>
* <p>
* The resulting credentials can be used to access a resource that has a resource-based policy. If that policy
* specifically references the federated user session in the <code>Principal</code> element of the policy, the
* session has the permissions allowed by the policy. These permissions are granted in addition to the permissions
* that are granted by the session policies.
* </p>
* </p>
* The plain text that you use for both inline and managed session policies can't exceed 2,048 characters. The JSON
* policy characters can be any ASCII character from the space character to the end of the valid character list ( through \u00FF). It can also include the tab ( ), linefeed ( ), and carriage return ( ) characters.
* </p>
* </p>
* An AWS conversion compresses the passed session policies and session tags into a packed binary format that has a
* separate limit. Your request can fail for this limit even if your plain text meets the other requirements. The
* <code>PackedPolicySize</code> response element indicates by percentage how close the policies and tags for your
* request are to the upper size limit.
* </p>
* </p>

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*/
/**
* Returns a set of temporary security credentials (consisting of an access key ID, a secret access key, and a
* security token) for a federated user. A typical use is in a proxy application that gets temporary security
* credentials on behalf of distributed applications inside a corporate network. You must call the
* <code>GetFederationToken</code> operation using the long-term security credentials of an IAM user. As a result,
* this call is appropriate in contexts where those credentials can be safely stored, usually in a server-based
* application. For a comparison of <code>GetFederationToken</code> with the other API operations that produce
* temporary credentials, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html">Requesting Temporary

* You can create a mobile-based or browser-based app that can authenticate users using a web identity provider like
* Login with Amazon, Facebook, Google, or an OpenID Connect-compatible identity provider. In this case, we
* recommend that you use <a href="http://aws.amazon.com/cognito/">Amazon Cognito</a> or
* <code>AssumeRoleWithWebIdentity</code>. For more information, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#api_assumerolewithwebidentity">Federation Through a Web-based Identity Provider</a> in the <i>IAM User Guide</i>.

* You can also call <code>GetFederationToken</code> using the security credentials of an AWS account root user, but
* we do not recommend it. Instead, we recommend that you create an IAM user for the purpose of the proxy
* application. Then attach a policy to the IAM user that limits federated users to only the actions and resources
* that they need to access. For more information, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html">IAM Best Practices</a> in the <i>IAM</i>
* User Guide</i>.

* Session duration

* The temporary credentials are valid for the specified duration, from 900 seconds (15 minutes) up to a maximum of
* 129,600 seconds (36 hours). The default session duration is 43,200 seconds (12 hours). Temporary credentials that
* are obtained by using AWS account root user credentials have a maximum duration of 3,600 seconds (1 hour).
You can use the temporary credentials created by <code>GetFederationToken</code> in any AWS service except the following:

- You cannot call any IAM operations using the AWS CLI or the AWS API.
- You cannot call any STS operations except <code>GetCallerIdentity</code>.

You must pass an inline or managed <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html#policies_session">session policy</a> to this operation. You can pass a single JSON policy document to use as an inline session policy. You can also specify up to 10 managed policies to use as managed session policies. The plain text that you use for both inline and managed session policies can't exceed 2,048 characters.

Though the session policy parameters are optional, if you do not pass a policy, then the resulting federated user session has no permissions. When you pass session policies, the session permissions are the intersection of the IAM user policies and the session policies that you pass. This gives you a way to further restrict the permissions for a federated user. You cannot use session policies to grant more permissions than those that are defined in the permissions policy of the IAM user. For more information, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html#policies_session">Session Policies</a> in the <i>IAM User Guide</i>. For information about using <code>GetFederationToken</code> to create temporary security credentials, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#api_getfederatetoken">GetFederationToken—Federation Through a Custom Identity Broker</a>.

You can use the credentials to access a resource that has a resource-based policy. If that policy specifically references the federated user session in the <code>Principal</code> element of the policy, the session has the permissions allowed by the policy. These permissions are granted in addition to the permissions granted by the session policies.
* <b>Tags</b>

* (Optional) You can pass tag key-value pairs to your session. These are called session tags. For more information about session tags, see [Passing Session Tags in STS](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_session-tags.html) in the IAM User Guide.

* An administrator must grant you the permissions necessary to pass session tags. The administrator can also create granular permissions to allow you to pass only specific session tags. For more information, see [Tutorial: Using Tags for Attribute-Based Access Control](https://docs.aws.amazon.com/IAM/latest/UserGuide/tutorial_attribute-based-access-control.html) in the IAM User Guide.

* Tag key-value pairs are not case sensitive, but case is preserved. This means that you cannot have separate <code>Department</code> and <code>department</code> tag keys. Assume that the user that you are federating has the <code>Department</code>=<code>Marketing</code> tag and you pass the <code>department</code>=<code>engineering</code> session tag. <code>Department</code> and <code>department</code> are not saved as separate tags, and the session tag passed in the request takes precedence over the user tag.

* @param getFederationTokenRequest

* @return Result of the GetFederationToken operation returned by the service.

* @throws MalformedPolicyDocumentException

* The request was rejected because the policy document was malformed. The error message describes the specific error.

* @throws PackedPolicyTooLargeException

* The request was rejected because the total packed size of the session policies and session tags combined was too large. An AWS conversion compresses the session policy document, session policy ARNs, and session tags into a packed binary format that has a separate limit. The error message indicates by percentage how close the policies and tags are to the upper size limit. For more information, see [Passing Session Tags in STS](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_session-tags.html) in the IAM User Guide.

* You could receive this error even though you meet other defined session policy and session tag limits.

* @throws RegionDisabledException

* STS is not activated in the requested region for the account that is being asked to generate credentials.

* The account administrator must use the IAM console to activate STS in that region. For more information, see [IAM and STS Entity Character Limits](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_enable-regions.html) in the IAM User Guide.
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* @sample AWSSecurityTokenService.GetFederationToken
* @see <a href="http://docs.aws.amazon.com/goto/WebAPI/sts-2011-06-15/GetFederationToken">AWS API Documentation</a>
*/

Found in path(s):
* /opt/cola/permits/1339752493_1654599307.9599082/0/aws-java-sdk-sts-1-11-749-sources-jar/com/amazonaws/services/securitytoken/AWSSecurityTokenServiceClient.java

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/**
 * <p>
 * Returns a set of temporary security credentials (consisting of an access key ID, a secret access key, and a
 * security token) for a federated user. A typical use is in a proxy application that gets temporary security
 * credentials on behalf of distributed applications inside a corporate network. You must call the
 * <code>GetFederationToken</code> operation using the long-term security credentials of an IAM user. As a result,
 * this call is appropriate in contexts where those credentials can be safely stored, usually in a server-based
 * application. For a comparison of <code>GetFederationToken</code> with the other API operations that produce
 * </p>
 * <note>
 * <p>
 * You can create a mobile-based or browser-based app that can authenticate users using a web identity provider like
 * Login with Amazon, Facebook, Google, or an OpenID Connect-compatible identity provider. In this case, we
 * recommend that you use <a href="http://aws.amazon.com/cognito/">Amazon Cognito</a> or
 * <code>AssumeRoleWithWebIdentity</code>. For more information, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#api_assumerolewithwebidentity" >Federation Through a Web-based Identity Provider</a> in the <i>IAM User Guide</i>.
 * </p>
 * </note>
 * <p>
 * You can also call <code>GetFederationToken</code> using the security credentials of an AWS account root user, but
 * we do not recommend it. Instead, we recommend that you create an IAM user for the purpose of the proxy
 * application. Then attach a policy to the IAM user that limits federated users to only the actions and resources
 * that they need to access. For more information, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/best-practices.html">IAM Best Practices</a> in the <i>IAM User Guide</i>.
 * </p>
 * <b>Session duration</b>
 * </p>
 * <p>
* The temporary credentials are valid for the specified duration, from 900 seconds (15 minutes) up to a maximum of 129,600 seconds (36 hours). The default session duration is 43,200 seconds (12 hours). Temporary credentials that are obtained by using AWS account root user credentials have a maximum duration of 3,600 seconds (1 hour).

* <p>
* <b>Permissions</b>
* <p>
* You can use the temporary credentials created by <code>GetFederationToken</code> in any AWS service except the following:

* <li>You cannot call any IAM operations using the AWS CLI or the AWS API.
* <li>You cannot call any STS operations except <code>GetCallerIdentity</code>.

* <p>
* You must pass an inline or managed <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html#policies_session">session policy</a> to this operation. You can pass a single JSON policy document to use as an inline session policy. You can also specify up to 10 managed policies to use as managed session policies. The plain text that you use for both inline and managed session policies can't exceed 2,048 characters.

* <p>
* Though the session policy parameters are optional, if you do not pass a policy, then the resulting federated user session has no permissions. When you pass session policies, the session permissions are the intersection of the IAM user policies and the session policies that you pass. This gives you a way to further restrict the permissions for a federated user. You cannot use session policies to grant more permissions than those that are defined in the permissions policy of the IAM user. For more information, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/access_policies.html#policies_session">Session Policies</a> in the <i>IAM User Guide</i>. For information about using <code>GetFederationToken</code> to create temporary security credentials, see <a href="https://docs.aws.amazon.com/IAM/latest/UserGuide/id_credentials_temp_request.html#api_getfederationToken">GetFederationToken—Federation Through a Custom Identity Broker</a>.
You can use the credentials to access a resource that has a resource-based policy. If that policy specifically references the federated user session in the `<code>Principal</code>` element of the policy, the session has the permissions allowed by the policy. These permissions are granted in addition to the permissions granted by the session policies.

**Tags**

(Optional) You can pass tag key-value pairs to your session. These are called session tags. For more information about session tags, see [Passing Session Tags in STS](https://docs.aws.amazon.com/IAM/latest/UserGuide/id_session-tags.html) in the *IAM User Guide*.

An administrator must grant you the permissions necessary to pass session tags. The administrator can also create granular permissions to allow you to pass only specific session tags. For more information, see [Tutorial: Using Tags for Attribute-Based Access Control](https://docs.aws.amazon.com/IAM/latest/UserGuide/tutorial_attribute-based-access-control.html) in the *IAM User Guide*.

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```
@param getFederationTokenRequest
@return A Java Future containing the result of the GetFederationToken operation returned by the service.
@sample AWSSecurityTokenServiceAsync.GetFederationToken
@see [AWS API Documentation](http://docs.aws.amazon.com/goto/WebAPI/sts-2011-06-15/GetFederationToken)
```

AWS API Documentation

Found in path(s): `/opt/cola/permits/1339752493_1654599307.9599082/0/aws-java-sdk-sts-1-11-749-sources-jar/com/amazonaws/services/securitytoken/AWSSecurityTokenServiceAsync.java`

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The following artifacts are EPL.
* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

-----

Oracle

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

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

* 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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OW2
The following artifacts are licensed by the OW2 Foundation according to the terms of http://asm.ow2.org/license.html

org.ow2.asm:asm-commons
org.ow2.asm:asm

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Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

-----
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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
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org.apache.tomcat:tomcat-api
org.apache.tomcat:tomcat-util-scan
org.apache.tomcat:tomcat-util
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org.eclipse.jetty.toolchain:jetty-schemas

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* /opt/cola/permits/1247632449_1640313089.85/0/opensaml-security-impl-4-0-1-sources-jar/org/opensaml/security/credential/criteria/impl/EvaluableUsageCredentialCriterion.java
* /opt/cola/permits/1247632449_1640313089.85/0/opensaml-security-impl-4-0-1-sources-
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* /opt/cola/permits/1247632706_1640312903.91/0/opensaml-xmlsec-api-4-0-1-sources-
jar/org/opensaml/xmlsec/encryption/support/KeyIdInfoReferenceEncryptedKeyResolver.java
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jar/org/opensaml/xmlsec/algorithm/descriptors/BlockEncryptionAES256CBC.java
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* javax.annotation:javax.annotation-api
* javax.transaction:javax.transaction-api
* javax.websocket:javax.websocket-api

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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.
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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

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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-el-api

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1.2507 zookeeper-jute 3.8.0

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* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetChildren2Response.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/DeleteRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetMaxChildrenRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetDataResponse.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/SetSASLRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/MultiTxn.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/ExistsResponse.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
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* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetAllChildrenNumberResponse.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/Create2Response.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/server/quorum/QuorumAuthPacket.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/ReplyHeader.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/ErrorTxn.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetChildrenResponse.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/txn/DeleteTxn.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/AuthPacket.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/GetSASLRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/proto/ReconfigRequest.java
* /opt/cola/permits/1292071522_1647925335.47/0/zookeeper-jute-3-8-0-sources-jar/org/apache/zookeeper/data/ACL.java

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options {
    STATIC=false;
}

PARSER_BEGIN(Rcc)
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 */

package org.apache.jute.compiler.generated;
import org.apache.jute.compiler.*;
import java.util.ArrayList;
import java.util.Hashtable;
import java.io.File;
import java.io.FileReader;
import java.io.FileNotFoundException;
import java.io.IOException;
@SuppressWarnings("unused")
public class Rcc {
    private static Hashtable<String, JRecord> recTab = new Hashtable<String, JRecord>();
    private static String curDir = System.getProperty("user.dir");
    private static String curFileName;
    private static String curModuleName;
    public static void main(String args[]) {
        String language = "java";
        ArrayList<String> recFiles = new ArrayList<String>();
        JFile curFile=null;
        for (int i=0; i<args.length; i++) {
            if ("-l".equalsIgnoreCase(args[i]) ||
                "--language".equalsIgnoreCase(args[i])) {
                language = args[i+1].toLowerCase();
                i++;
            } else {
                recFiles.add(args[i]);
            }
        }
        if (!"c++".equals(language) && !"java".equals(language) && !"c".equals(language)) {
            System.out.println("Cannot recognize language:" + language);
            System.exit(1);
        }
        if (recFiles.size() == 0) {
            System.out.println("No record files specified. Exiting.");
            System.exit(1);
        }
        for (int i=0; i<recFiles.size(); i++) {
            curFileName = recFiles.get(i);
            File file = new File(curFileName);
            try {
                curFile = parseFile(file);
            } catch (FileNotFoundException e) {
                System.out.println("File " + recFiles.get(i) + " Not found.");
                System.exit(1);
            } catch (ParseException e) {
                System.out.println(e.toString());
                System.exit(1);
            }
        }
    }
}
try {
    curFile.genCode(language, new File("."));
} catch (IOException e) {
    System.out.println(e.toString());
    System.exit(1);
}

public static JFile parseFile(File file) throws FileNotFoundException, ParseException {
    curDir = file.getParent();
    curFileName = file.getName();
    FileReader reader = new FileReader(file);
    try {
        Rcc parser = new Rcc(reader);
        recTab = new Hashtable<String, JRecord>();
        return parser.Input();
    } finally {
        try {
            reader.close();
        } catch (IOException e) {
        }
    }
}

PARSER_END(Rcc)

SKIP :
{
    " = "
    | "\n"
    | "\n"
    | "\r"
}

SPECIAL_TOKEN :
{
    "/\"" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN :
{
    <("\n" | "\r" | "\r\n")> : DEFAULT
}
JFile Input() {

}
ArrayList<JFile> ilist = new ArrayList<JFile>();
ArrayList<JRecord> rlist = new ArrayList<JRecord>();
JFile i;
ArrayList <JRecord>l;
}
{
(
i = Include()
{ ilist.add(i); }
| l = Module()
{ rlist.addAll(l); }
)+
<EOF>
{ return new JFile(curFileName, ilist, rlist); }
}
JFile Include() :
{
String fname;
Token t;
}
{
<INCLUDE_TKN>
t = <CSTRING_TKN>
{
JFile ret = null;
fname = t.image.replaceAll("^\"", "").replaceAll("\"$","");
File file = new File(curDir, fname);
String tmpDir = curDir;
String tmpFile = curFileName;
curDir = file.getParent();
curFileName = file.getName();
try {
FileReader reader = new FileReader(file);
Rcc parser = new Rcc(reader);
try {
ret = parser.Input();
System.out.println(fname + " Parsed Successfully");
} catch (ParseException e) {
System.out.println(e.toString());
System.exit(1);
}
try {
reader.close();
} catch (IOException e) {
}
} catch (FileNotFoundException e) {
System.out.println("File " + fname +

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"Not found.");
System.exit(1);
}
curDir = tmpDir;
curFileName = tmpFile;
return ret;
}
}

ArrayList<JRecord> Module() :
{
    String mName;
    ArrayList<JRecord> rlist;
}
{
    <MODULE_TKN>
mName = ModuleName()
    { curModuleName = mName; }
    <LBRACE_TKN>
rlist = RecordList()
    <RBRACE_TKN>
    { return rlist; }
}

String ModuleName() :
{
    String name = "";
    Token t;
}
{
    t = <IDENT_TKN>
    { name += t.image; }
    (<DOT_TKN>
    t = <IDENT_TKN>
    { name += "." + t.image; }
    )*
    { return name; }
}

ArrayList<JRecord> RecordList() :
{
    ArrayList<JRecord> rlist = new ArrayList<JRecord>();
    JRecord r;
}
{
    r = Record()
{ rlist.add(r); }
)
{ return rlist; }
}

JRecord Record() :
{
    String rname;
    ArrayList<JField> flist = new ArrayList<JField>();
    Token t;
    JField f;
}
{
    <RECORD_TKN>
    t = <IDENT_TKN>
    { rname = t.image; }
    <LBRACE_TKN>
    (f = Field())
    { flist.add(f); }
    <SEMICOLON_TKN>
)+</RBRACE_TKN>
{
    String fqn = curModuleName + "." + rname;
    JRecord r = new JRecord(fqn, flist);
    recTab.put(fqn, r);
    return r;
}
}

JField Field() :
{
    JType jt;
    Token t;
}
{
    jt = Type()
    t = <IDENT_TKN>
    { return new JField(jt, t.image); }
}

JType Type() :
{
    JType jt;
    Token t;
    String rname;
}
{  
  jt = Map()
  { return jt; }
  
  jt = Vector()
  { return jt; }
  
  <BYTE_TKN>
  { return new JByte(); }
  
  <BOOLEAN_TKN>
  { return new JBoolean(); }
  
  <INT_TKN>
  { return new JInt(); }
  
  <LONG_TKN>
  { return new JLong(); }
  
  <FLOAT_TKN>
  { return new JFloat(); }
  
  <DOUBLE_TKN>
  { return new JDouble(); }
  
  <STRING_TKN>
  { return new JString(); }
  
  <BUFFER_TKN>
  { return new JBuffer(); }
  
  rname = ModuleName()
  {
    if (rname.indexOf('.', 0) <= 0) {
      rname = curModuleName + "." + rname;
    }
    JRecord r = recTab.get(rname);
    if (r == null) {
      System.out.println("Type " + rname + " not known. Exiting.");
      System.exit(1);
    }
    return r;
  }
  
  JMap Map() :
  {
    JType jt1;
    JType jt2;
  }
  
  <MAP_TKN>
  <LT_TKN>
  jt1 = Type()
  <COMMA_TKN>
  jt2 = Type()
  <GT_TKN>
  { return new JMap(jt1, jt2); }
1.2508 lcms 2.9-4

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractDirectedNetworkConnections.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/UndirectedMultiNetworkConnections.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/EdgesConnecting.java

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* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/collect/MapMaker.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/net/InternetDomainName.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/collect/DenseImmutableTable.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/net/UrlEscapers.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/io/ByteArrayDataOutput.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/util/concurrent/AbstractExecutionThreadService.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/annotations/GwtIncompatible.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/util/concurrent/ForwardingFuture.java
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* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/util/concurrent/AbstractIdleService.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/collect/RegularImmutableTable.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/primitives/SignedBytes.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/reflect/TypeResolver.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/base/Platforms.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/primitives/UnsignedBytes.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/collect/MapMakerInternalMap.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/primitives/Bytes.java
* /opt/cola/permits/1349172018_1655893652.398012220/jar/com/google/common/reflect/TypeResolver.java
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*/
/**
* Outer class that exists solely to let us write [@code Partially.GwtIncompatible] 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/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
  jar/com/google/common/util/concurrent/Partially.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
*/

Found in path(s):
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
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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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*/

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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
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/Striped64.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/LongAdder.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/LongAdder.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/annotations/Beta.java
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/**
 * Not supported. You are attempting to create a map that may contain a non-{@code Comparable} key.<b>
 * Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy
 * version.
 * @throws UnsupportedOperationException always
 * @deprecated Pass a key of type {@code Comparable} to use {@link ImmutableSortedMap#of(Comparable, Object)}.<b>
 */

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/ForwardingMapEntry.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/NaturalOrdering.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/LinkedHashMultiset.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/ForwardingSortedSet.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collect/Multiset.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collect/Multimap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collect/ForwardingObject.java
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jar/com/google/common/collect/Maps.java
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jar/com/google/common/collect/Multimaps.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collect/AbstractMapEntry.java
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jar/com/google/common/collect/ReverseOrdering.java

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 */
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/CompactLinkedHashSet.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collect/AbstractMultimap.java
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* /opt/cola/permits/1349172018_1655893652.39801220/guava-28-2-jre-sources-5-jar/com/google/common/collection/AllEqualOrdering.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/reflect/TypeCapture.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/math/StatsAccumulator.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/CharSink.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/RateLimiter.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/util/concurrent/ServiceManager.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/LongAddable.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/cache/LongAddables.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/ByteSink.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/LongAddables.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/ClassPath.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/FilteredKeyMultimap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/TypeToInstanceMap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/LongAddable.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/FileWriteMode.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/math/LinearTransformation.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/AbstractInvocationHandler.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/Element.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/math/Stats.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/AbstractByteHasher.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/hash/FarmHashFingerprint64.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collect/MultimapBuilder.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collect/ImmutableMapEntry.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collect/RegularImmutableMultiset.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/hash/AbstractStreamingHasher.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/base/Present.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/hash/HashingOutputStream.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/collect/TreeRangeSet.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5.jar/com/google/common/reflect/TypeParameter.java
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jar/com/google/common/collection/ImmutableMultiset.java
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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/graph/AbstractBaseGraph.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/MinMaxPriorityQueue.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-
jar/com/google/common/collection/ForwardingSortedSetMultimap.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/collection/RowSortedTable.java

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* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/reflect/TypeVisitor.java
* /opt/cola/permits/1349172018_1655893652.3980122/0/guava-28-2-jre-sources-5-jar/com/google/common/io/CharSequenceReader.java
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* lib/domain_name/punycode.rb

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* lib/domain_name/etld_data.rb

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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,-Bs symbolic

### 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 $@ $<

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

## Dependency rules
%.d: $(srcdir)/%.c
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.c) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \
| sed '\''s/\($*\)\.o[ :]*/\1.o $@ : /g'\'' > $@; \
[ -s $@ ] || rm -f $@'
## Versioned libraries rules
%.$(SO).$(SO_TARGET_VERSION_MAJOR): %.$(SO).$(SO_TARGET_VERSION)
$(RM) $@ && ln -s ${<F} $@
%.$(SO): %.$(SO).$(SO_TARGET_VERSION_MAJOR)
$(RM) $@ && ln -s ${*F}.$(SO).$(SO_TARGET_VERSION) $@
## Bind internal references
# LDflags that pkgdata will use
BIR_LDFLAGS= -Wl,-Bsymbolic
# Dependencies [i.e. map files] for the final library
BIR_DEPS=
## Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =
## End BSD-specific setup
This package was debianized by Jay Berkenbilt <qjb@debian.org> on
August 5, 2005.
The packaging was taken over by Laszlo Boszormenyi (GCS) <gcs@debian.org> on
Tue, 17 Mar 2015.
The original source was downloaded from
http://site.icu-project.org/download
The main web site for ICU is
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The "source code" for a work means the preferred form of the work
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SUMMARY OF CHANGES

The cPython 3.8.1 function `quote` from the `shlex` module (`shlex.quote()`) was backported in order to provide
access
to this function in earlier versions of Python. The regular expression used to identify unsafe command line strings
was modified to:

```python
_find_unsafe = re.compile(r'[^\w@%+=:,./-]').search
```

from:

```python
_find_unsafe = re.compile(r'[^\w@%+=:,./-]', re.ASCII).search
```

in order to remove the re.ASCII flag which is not available in the Python 2.x re module

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""Types used by cobra, used by mypy

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""

from typing import Any, Dict

JsonDict = Dict[str, Any]
YamlDict = Dict[str, Any]

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/cobra_types.py
No license file was found, but licenses were detected in source scan.

""Utility for batch publishing.

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FIXME: Should be renamed
""

import json

def computeEventTimeDeltas(events: str) -> list:
    lines = events.splitlines()
    N = len(lines)
    assert N > 0, 'event list should not be empty'

    events = [json.loads(line) for line in lines]

    deltas = []
    for i in range(1, N):
        previousTs = events[i - 1]['timestamp']
        currentTs = events[i]['timestamp']
        delta = currentTs - previousTs

        deltas.append((lines[i - 1], delta))

    deltas.append((lines[N-1], 0))

    return deltas

Found in path(s):
Publish jobs gets enqueued into a multi-publisher, which publish them to redis in a batch fashion, using a pipeline.

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https://redis.io/topics/pipelining
Weird leaks https://bugs.python.org/issue31620

```
import asyncio

class PipelinedPublisher():
    def __init__(self, redis, batchSize=None):
        self.redis = redis
        self.queue = asyncio.Queue()
        self.batchSize = batchSize or 100
        self.lock = asyncio.Lock()

        self.xaddMaxLength = 1000

    async def publishAll(self):
        pipe = self.redis.pipeline()
        async with self.lock:
            while True:
                try:
                    job = self.queue.get_nowait()
                except asyncio.QueueEmpty:
                    break
                else:
                    self.publish(pipe, job)
                    self.queue.task_done()

                await pipe.execute()

    def enqueue(self, job):
        self.queue.put_nowait(job)

    def publish(self, pipe, job):
        appkey, channel, data = job
        appChannel = '{}::{}'.format(appkey, channel)
        pipe.xadd(appChannel, {'json': data},
                  max_len=self.xaddMaxLength, exact_len=False)

    async def publishNow(self, job):
async with self.lock:
    pipe = self.redis.pipeline()
    self.publish(pipe, job)
    await pipe.execute()

async def push(self, job, batchPublish=False):
    if not batchPublish:
        await self.publishNow(job)
        return

    self.enqueue(job)

    if self.queue.qsize() >= self.batchSize:
        await self.publishAll()

Found in path(s):
  * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1.tar.gz/cobras-1.2.1/cobras/server/pipelined_publisher.py

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

"""Cobra main driver.
   Calls into sub commands like git.

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"

from pkgutil import walk_packages

import click
import coloredlogs

coloredlogs.install(level='WARNING')

@click.group()
@click.version_option()
def main():
    
    ___ __
   / \|___|______
  // / \.' ` \_/ \__
  //._ ( | | | | |
 \___\___|____\____|

Cobra is a realtime messaging server using Python3, WebSockets and Redis.
  """
for loader, module_name, is_pkg in walk_packages(__path__, __name__ + '.
    module = __import__(module_name, globals(), locals(), ['__name__'])
    cmd = getattr(module, module_name.rsplit('.', 1)[-1])
    if isinstance(cmd, click.Command):
        main.add_command(cmd)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/__init__.py
No license file was found, but licenses were detected in source scan.

"""Tools used when running as superuser (which we should almost never do)

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"

import os
import sys
import click

def preventRootUsage():
    """ Make sure a root user cannot run this command"

    if os.geteuid() == 0:
        msg = 'Cobra cannot be run as root / sudo. Exiting'
        click.secho(msg, fg='red')
        sys.exit(1)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/superuser.py
No license file was found, but licenses were detected in source scan.

"""Setup cobra

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"

import click

from cobras.common.apps_config import AppConfig, getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage

@click.command()
def init():
    """Setup cobra"
    """
preventRootUsage()

path = getDefaultAppsConfigPath()
appsConfig = AppsConfig(path)
appsConfig.generateDefaultConfig()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/init.py
No license file was found, but licenses were detected in source scan.

Metadata-Version: 2.1
Name: cobra
Version: 1.2.1
Summary: A realtime messaging server using WebSockets and Redis.
Home-page: https://github.com/machinezone/cobra
Author: Benjamin Sergeant
Author-email: bsergean@gmail.com
License: BSD 3
Description: # General

Cobra is a realtime messaging server using Python3, WebSockets and Redis PubSub. It was presented in great
details during [RedisConf 2019](https://events.redislabs.com/redis-conf/redis-conf-2019/).

* [slides](https://bsergean.github.io/redis_conf_2019/slides.html)
* [youtube](https://www.youtube.com/watch?v=o8CC8qYfRQE&t=147s)

Cobra has been used in production receiving heavy traffic for about a year. Since it was written in Python it was
named after a snake as an homage to a great programming language.

# News

Cobra is actively being developed, check out the [changelog](CHANGELOG.md) to know what's cooking.

# Installation

## With pip

~~~
ip install cobra
~~~

## With docker

~~~
docker pull bsergean/cobra
~~~

## For development
```
git clone <url>
cd cobra
python3 -m venv venv
source venv/bin/activate
make dev
make test
```
- name: COBRA_HOST
  value: 0.0.0.0
- name: COBRA_REDIS_URLS
  value: redis://redis1;redis://redis2

# Thank you

There would be no cobra without some other amazing open-source projects and tech. Here are 3 very remarkable ones.

- [Python](https://www.python.org/) (and [asyncio](https://realpython.com/async-io-python/), one of the killer python3 feature !)
- [Redis](https://redis.io/), the swiss army knife of the internet which provide a very scalable publish/subscribe feature to dispatch messages while retaining them and allowing lookups of old messages (see [Redis Streams](https://redis.io/topics/streams-intro)).

Platform: UNKNOWN
Classifier: Development Status :: 5 - Production/Stable
Classifier: Environment :: Web Environment
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Operating System :: OS Independent
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.7
Description-Content-Type: text/markdown
Provides-Extra: dev
Provides-Extra: tests

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/PKG-INFO
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/cobras.egg-info/PKG-INFO
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Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/cobras/server/app.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/cobras/server/redis_subscriber.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/cobras/server/stream_sql.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/cobras/client/health_check.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/cobras/client/monitor.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/cobras/common/algorithm.py
"Handle credential files

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"'

import os

from cobras.common.apps_config import AppsConfig, getDefaultAppsConfigPath

def createCredentials(role, secret):
    return {'role': role, 'secret': secret}

def getDefaultRoleForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppsConfig(path)
    return appsConfig.getDefaultRoleForApp(app)

def getDefaultSecretForApp(app) -> str:
    path = os.getenv('COBRA_APPS_CONFIG', getDefaultAppsConfigPath())
    appsConfig = AppsConfig(path)
    return appsConfig.getDefaultSecretForApp(app)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/client/credentials.py

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

""Subscribe to a channel
import click
import uvloop

from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle
from cobras.server.redis_connections import RedisConnections
from cobras.server.redis_subscriber import (RedisSubscriberMessageHandlerClass, runSubscriber)

class MessageHandlerClass(RedisSubscriberMessageHandlerClass):
    def __init__(self, obj):
        self.cnt = 0
        self.cntPerSec = 0
        self.throttle = Throttle(seconds=1)

    def log(self, msg):
        print(msg)

    async def on_init(self, redisConnection):
        pass

    async def handleMsg(self, msg: str, position: str, payloadSize: int) -> bool:
        self.cnt += 1
        self.cntPerSec += 1
        if self.throttle.exceedRate():
            return True

        print(f"#messages {self.cnt} msg/s {self.cntPerSec}")
        self.cntPerSec = 0

        return True

@click.command()
@click.option('--redis_urls', default='redis://localhost')
@click.option('--redis_password')
@click.option('--channel')
@click.option('--appkey')
@click.option('--position')
def redis_subscribe(redis_urls, redis_password, channel, position, appkey):
    """Subscribe to a channel"""
cobra subscribe --redis_urls redis://localhost:7379 --channel foo --appkey bar  # noqa

cobra subscribe --redis_urls redis://6379 --channel foo --appkey bar
[From a bench container]

cobra subscribe --redis_urls 'redis://localhost:7001;redis://localhost:7002' --channel foo --appkey bar  # noqa

preventRootUsage()
uvloop.install()

appChannel = '{}::{}'.format(appkey, channel)
redisConnections = RedisConnections(redis_urls, redis_password)
runSubscriber(redisConnections, appChannel, position, MessageHandlerClass)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1/cobras/runner/redis_subscribe.py
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Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1/cobras/runner/client.py
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1.2.1/cobras/server/redis_kv_store.py
No license file was found, but licenses were detected in source scan.

"Monitor cobra

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"

import click
import uvloop

from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
getDefaultSecretForApp)
from cobras.client.monitor import runMonitor
from cobras.common.apps_config import STATS_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={STATS_APPKEY}'

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('stats'))
@click.option('--secret', default=getDefaultSecretForApp('stats'))
@click.option('--raw', is_flag=True)
@click.option('--hide_nodes', is_flag=True)
@click.option('--hide_roles', is_flag=True)
@click.option('--subscribers', is_flag=True)
@click.option('--role_filter')
@click.option('--system', is_flag=True)

def monitor(url, role, secret, raw, role_filter, hide_nodes, hide_roles, subscribers, system):
    """Monitor cobra
    ""

    preventRootUsage()
    uvloop.install()

    credentials = createCredentials(role, secret)
    runMonitor(url, credentials, raw, role_filter,
        not hide_nodes, not hide_roles, subscribers, system)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/monitor.py
No license file was found, but licenses were detected in source scan.

"""Subscribe to a channel

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""

import asyncio
import json
import click
import uvloop

from cobras.client.client import subscribeClient
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
    getDefaultSecretForApp)
from cobras.common.apps_config import PUBSUB_APPKEY
from cobras.common.superuser import preventRootUsage
from cobras.common.throttle import Throttle

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={PUBSUB_APPKEY}'

class MessageHandlerClass:
    def __init__(self, websockets, args):
        self.cnt = 0
self.cntPerSec = 0
self.throttle = Throttle(seconds=1)
self.verbose = args['verbose']

async def on_init(self):
    pass

async def handleMsg(self, msg: str) -> bool:
    self.cnt += 1
    self.cntPerSec += 1
    if self.verbose >= 1:
        data = json.loads(msg)
        body = data['body']
        message = body['messages'][0]
        position = body['position']
        print(f'{message} at position {position}')

        if self.throttle.exceedRate():
            return True

        print(f'#{messages} {self.cnt} msg/s {self.cntPerSec}"
        self.cntPerSec = 0

        return True

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('pubsub'))
@click.option('--secret', default=getDefaultSecretForApp('pubsub'))
@click.option('--channel', default='sms_republished_v1_neo')
@click.option('--position')
@click.option('--verbose', '-v', count=True)
@click.option('--stream_sql')
def subscribe(url, role, secret, channel, position, stream_sql, verbose):
    '''Subscribe to a channel'''
    preventRootUsage()
    uvloop.install()

    credentials = createCredentials(role, secret)

    asyncio.get_event_loop().run_until_complete(
        subscribeClient(url, credentials, channel, position,
                        stream_sql, MessageHandlerClass,
                        {'verbose': verbose}))
Small class to record data attached to a connection

FIXME: use this to enforce publish+subscribe permissions.

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import uuid

class ConnectionState:
    def __init__(self, appkey):
        self.appkey = appkey

        self.connection_id = uuid.uuid4().hex[:8]
        self.subscriptions = {}
        self.ok = True
        self.role = 'na'
        self.authenticated = False
        self.permissions = []

        self.nonce = None
        self.error = 'na'

        self.path = f'/tmp/log_{self.connection_id}'
        self.fileLogging = False

    def log(self, msg):
        log = f'[{self.connection_id}::{self.role}] {msg}'
        print(log)

        if self.fileLogging:
            with open(self.path, 'a') as f:
                f.write(log + '
')

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/server/connection_state.py

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

"Compute our version number

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import pkg_resources

from cobras.common.memoize import memoize

def getVersion():
    """Get our own version using pkg_resources""

    return pkg_resources.get_distribution("cobras").version

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/version.py
No license file was found, but licenses were detected in source scan.

"""Capture memory usage

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""

import os

import psutil

from cobras.common.memoize import memoize

@memoize
def getContainerMemoryLimit():
    """In bytes"

    path = '/sys/fs/cgroup/memory/memory.limit_in_bytes'
    if not os.path.exists(path):
        return psutil.virtual_memory().total
    else:
        with open(path) as f:
            mem = f.read()
        return int(mem)

def getProcessUsedMemory():
    p = psutil.Process()
    return p.memory_info().rss

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memory_usage.py
No license file was found, but licenses were detected in source scan.

"Memoization decorator for functions taking one or more arguments.

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```
def memoize(f):
    """Memoization decorator for functions taking one or more arguments."""

class Memodict(dict):
    """Helper class derived from dict"

    def __init__(self, f):
        """Constructor"

        dict.__init__(self)
        self.f = f

    def __call__(self, *args):
        """Call function"

        return self[args]

    def __missing__(self, key):
        """Missing method"

        ret = self[key] = self.f(*key)
        return ret

return Memodict(f)

Found in path(s):
  * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/memoize.py

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

"""Generate secrets used for authentication

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```

import click

from cobras.common.apps_config import genSecret
from cobras.common.superuser import preventRootUsage
@click.command()
def secret():
    
    Generate secrets used for authentication

    \b
cobra secret
    
    preventRootUsage()

    secret = genSecret()
    print(secret)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/secret.py
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"djb2 hash (unused)

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def djb2Hash(data):
    """Return a 32 bits digest"

    hash = 5381
    for x in data:
        hash = ((hash << 5) + hash) + ord(x)
    return hash & 0xFFFFFFFF

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/djb2_hash.py
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"""Bavarde main driver.
Calls into sub commands like git.

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from pkgutil import walk_packages

import click
import coloredlogs

coloredlogs.install(level='WARNING')
@click.group()
@click.version_option()
def main():
    ""

Bavarde is a chat app written on top of cobra
"""

for loader, module_name, is_pkg in walk_packages(__path__, __name__ + '.':)
    module = __import__(module_name, globals(), locals(), ['__name__'])
    cmd = getattr(module, module_name.rsplit('.', 1)[-1])
    if isinstance(cmd, click.Command):
        main.add_command(cmd)

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar-gz/cobras-1.2.1/cobras/bavarde/runner/__init__.py
No license file was found, but licenses were detected in source scan.

"""Module used for python packaging

Copyright (c) 2018-2019 Machine Zone, Inc. All rights reserved.
... from __future__ import absolute_import

import platform
import os
import sys
from setuptools import find_packages, setup

if sys.version_info[:2] < (3, 7):
    print('Error: Cobra requires Python 3.7')
    sys.exit(1)

ROOT = os.path.realpath(os.path.join(os.path.dirname(__file__)))

with open(os.path.join(ROOT, 'DOCKER_VERSION')) as f:
    VERSION = f.read().strip()

dev_requires = [
    'flake8',
    'isort',
    'honcho',
    'mypy',

Open Source Used in cnBR Operations Hub 22.2 27776
'aiojobs==0.1.0',
'twine'
]

tests_require = [
    'pytest',
    'pytest-cov',
    'pytest-xdist',
    'coverage'
]

with open('requirements.txt') as f:
    install_requires = f.read().splitlines()

setup(
    name='cobras',
    version=VERSION,
    author='Benjamin Sergeant',
    author_email='bsergean@gmail.com',
    url='https://github.com/machinezone/cobra',
    description='A realtime messaging server using WebSockets and Redis.',
    long_description=open(os.path.join(ROOT, 'README.md')).read(),
    long_description_content_type='text/markdown',
    packages=find_packages(exclude=['tests']),
    zip_safe=False,
    install_requires=install_requires,
    extras_require={
        'tests': tests_require,
        'dev': dev_requires
    },
    license='BSD 3',
    include_package_data=True,
    entry_points={
        'console_scripts': [
            'cobra = cobras.runner:main',
            'bavarde = cobras.bavarde.runner:main'
        ],
    },
    classifiers=[
        'Development Status :: 5 - Production/Stable',
        'Environment :: Web Environment',
        'Intended Audience :: Developers',
        'License :: OSI Approved :: BSD License',
        'Operating System :: OS Independent',
        'Programming Language :: Python',
        'Programming Language :: Python :: 3',
        'Programming Language :: Python :: 3.7',
    ],
)
Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1.tar.gz/cobras-1.2.1/setup.py

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""Publish to a channel"

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""

```python
import asyncio
import functools
import json
import click
import uvloop

from cobras.client.client import client
from cobras.client.credentials import (createCredentials, getDefaultRoleForApp,
    getDefaultSecretForApp)
from cobras.common.apps_config import ADMIN_APPKEY
from cobras.common.superuser import preventRootUsage

DEFAULT_URL = f'ws://127.0.0.1:8765/v2?appkey={ADMIN_APPKEY}'

async def clientCallback(websocket, **args):
    method = args['method']
    params = args.get('params')
    params = json.loads(params)

    pdu = {
        "action": "rpc/admin",
        "id": 1,
        "body": {
            "method": method,
            "params": params
        }
    }

    await websocket.send(json.dumps(pdu))

    response = await websocket.recv()
    print(response)
```

```python
async def start(url, credentials, verbose, method, params):
    ...
```
callback = functools.partial(clientCallback,
    verbose=verbose,
    method=method,
    params=params)

task = asyncio.create_task(
    client(url, credentials, callback))
await task

@click.command()
@click.option('--url', default=DEFAULT_URL)
@click.option('--role', default=getDefaultRoleForApp('admin'))
@click.option('--secret', default=getDefaultSecretForApp('admin'))
@click.option('--verbose', is_flag=True)
@click.option('--method', default='close_all')
@click.option('--params', default='{}')
def admin(url, role, secret, verbose, method, params):
    '''Admin

    ...\n    cobra admin --method toggle_file_logging --params '{"connection_id": ". ."}'
    ...\n    ...
    preventRootUsage()
    uvloop.install()
    
    credentials = createCredentials(role, secret)
    
    asyncio.get_event_loop().run_until_complete(start(url, credentials, 
        verbose, method, params))
    
    Found in path(s):
    * /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/admin.py
    No license file was found, but licenses were detected in source scan.
    
    '''
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    '''
    
    from datetime import datetime, timedelta
    
    class Throttle(object):
        def __init__(self,
            seconds: int = 1,
minutes: int = 0,
hours: int = 0) -> None:
self.throttle_period = timedelta(
    seconds=seconds, minutes=minutes, hours=hours )
self.time_of_last_call = datetime.min

def exceedRate(self) -> bool:
    now = datetime.now()
time_since_last_call = now - self.time_of_last_call

    if time_since_last_call > self.throttle_period:
        self.time_of_last_call = now
        return False
    else:
        return True

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/common/throttle.py
No license file was found, but licenses were detected in source scan.

"""Bot

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"

import click

from cobras.bavarde.bot.bot import runBot

@click.command()
def bot():
    """Bot
"

    runBot()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/bavarde/runner/bot.py
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"""Health check.

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import sys
import urllib.request
import click
import uvloop

from cobras.client.credentials import (getDefaultRoleForApp,
    getDefaultSecretForApp)
from cobras.client.health_check import (getDefaultHealthCheckChannel,
    getDefaultHealthCheckHttpUrl,
    getDefaultHealthCheckUrl, healthCheck)
from cobras.common.superuser import preventRootUsage

@click.option('--url', default=getDefaultHealthCheckUrl())
@click.option('--http_url', default=getDefaultHealthCheckHttpUrl)
@click.option('--http', is_flag=True)
@click.option('--role', default=getDefaultRoleForApp('health'))
@click.option('--secret', default=getDefaultSecretForApp('health'))
@click.option('--channel', default=getDefaultHealthCheckChannel())
@click.command()
def health(url, http_url, http, role, secret, channel):
    """Health check

    cobra health --http
    ""
    cobra health --http --http_url 'http://127.0.0.1:8765/health/
    ""

    preventRootUsage()
    uvloop.install()

    if http:
        print('url:', http_url)
        with urllib.request.urlopen(http_url) as response:
            html = response.read()
            print(html.decode('utf8'), end='')
    else:
        try:
            healthCheck(url, role, secret, channel)
        except ValueError as e:
            click.secho('System is unhealthy !!: {e}', fg='red')
            sys.exit(1)
        click.secho('System is healthy', fg='green')

Found in path(s):
import os

import click
import sentry_sdk
import uvloop

from cobras.common.apps_config import getDefaultAppsConfigPath
from cobras.common.superuser import preventRootUsage
from cobras.server.app import AppRunner

@click.command()
@click.option('--host', envvar='COBRA_HOST', default='127.0.0.1',
    help='Binding host address. Set to 0.0.0.0 in prod environments')
@click.option('--port', envvar='COBRA_PORT', default='8765')
@click.option('--redis_urls', envvar='COBRA_REDIS_URLS',
    default='redis://localhost;redis://localhost')
@click.option('--redis_password', envvar='COBRA_REDIS_PASSWORD')
@click.option('--apps_config_path', envvar='COBRA_APPS_CONFIG',
    default=getDefaultAppsConfigPath())
@click.option('--verbose', envvar='COBRA_VERBOSE', is_flag=True)
@click.option('--prod', envvar='COBRA_PROD', is_flag=True)
@click.option('--plugins', envvar='COBRA_PLUGINS')
@click.option('--debug_memory', envvar='COBRA_DEBUGMEMORY',
    is_flag=True)
@click.option('--sentry', envvar='COBRA_SENTRY', is_flag=True)
@click.option('--sentry_url', envvar='COBRA_SENTRY_URL')
@click.option('--no_stats', envvar='COBRA_NO_STATS', is_flag=True)
@click.option('--max_subscriptions', envvar='COBRA_MAX_SUBSCRIPTIONS',
    default=-1)
@click.option('--idle_timeout', envvar='COBRA_IDLE_TIMEOUT',
    default=5 * 60,
    help='idle connections kicked out after X seconds')
def run(host, port, redis_urls, redis_password,
    apps_config_path, verbose, debug_memory, plugins,
    sentry, sentry_url, prod, no_stats, max_subscriptions, idle_timeout):
    """Run the cobra server"

    cobra run --redis_urls 'redis://localhost:7001;redis://localhost:7002'
env COBRA_REDIS_PASSWORD=foobared cobra run

if prod:
    os.environ['COBRA_PROD'] = '1'

preventRootUsage()
vuloop.install()

if sentry and sentry_url:
    sentry_sdk.init(sentry_url)

print('runServer', locals())
runner = AppRunner(host, port, redis_url, 
    redis_password, apps_config_path, 
    verbose, debug_memory, plugins, 
    not no_stats, max_subscriptions, idle_timeout)
runner.run()

Found in path(s):
* /opt/cola/permits/1254827647_1644305122.39/0/cobras-1-2-1-tar-gz/cobras-1.2.1/cobras/runner/run.py

1.2534 moby-spdystream 0.2.0
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1.2536 boost 1.77

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// +build go1.10

package pq

import {
    "context"
    "database/sql/driver"
}

// NoticeHandler returns the notice handler on the given connection, if any. A runtime panic occurs if c is not a pq connection. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
func NoticeHandler(c driver.Conn) func(*Error) {
    return c.(*conn).noticeHandler
}

// SetNoticeHandler sets the given notice handler on the given connection. A runtime panic occurs if c is not a pq connection. A nil handler may be used to unset it. This is rarely used directly, use ConnectorNoticeHandler and ConnectorWithNoticeHandler instead.
//
// Note: Notice handlers are executed synchronously by pq meaning commands won't continue to be processed until the handler returns.
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
    c.(*conn).noticeHandler = handler
}

// NoticeHandlerConnector wraps a regular connector and sets a notice handler on it.
type NoticeHandlerConnector struct {
    driver.Connector
    noticeHandler func(*Error)
}

// Connect calls the underlying connector's connect method and then sets the notice handler.
func (n *NoticeHandlerConnector) Connect(ctx context.Context) (driver.Conn, error) {
    c, err := n.Connector.Connect(ctx)
    return n.conn, n.noticeHandler(err)
}
if err == nil {
    SetNoticeHandler(c, n.noticeHandler)
}
return c, err

// ConnectorNoticeHandler returns the currently set notice handler, if any. If
// the given connector is not a result of ConnectorWithNoticeHandler, nil is
// returned.
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

// ConnectorWithNoticeHandler creates or sets the given handler for the given
// connector. If the given connector is a result of calling this function
// previously, it is simply set on the given connector and returned. Otherwise,
// this returns a new connector wrapping the given one and setting the notice
// handler. A nil notice handler may be used to unset it.
//
// The returned connector is intended to be used with database/sql.OpenDB.
//
// Note: Notice handlers are executed synchronously by pq meaning commands
// won't continue to be processed until the handler returns.
func ConnectorWithNoticeHandler(c driver.Connector, handler func(*Error)) *NoticeHandlerConnector {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        c.noticeHandler = handler
    }
    return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

1.2539 alpine-keys 2.2-r0

1.2540 logstash-input-stdin 3.4.0
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Found in path(s):
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ParseEnum.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/AbstractCsvReader.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/exception/SuperCsvReflectionException.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/quote/NormalQuoteMode.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/exception/package-info.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/HashMapper.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/StrMinMax.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ParseBool.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/Token.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/CsvMapReader.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/CsvMapWriter.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/Util.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/comment/package-info.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ft/BoolCellProcessor.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/ThreeDHashMap.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvWriter.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/package-info.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ft/DateCellProcessor.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/Tokenizer.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvWriter.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/package-info.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ft/DateCellProcessor.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/Tokenizer.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvWriter.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/package-info.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ft/DateCellProcessor.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/Tokenizer.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvWriter.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/package-info.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ft/DateCellProcessor.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/Tokenizer.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvWriter.java
jar/org/supercsv/io/ICsvBeanReader.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ParseLong.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvReader.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/Equals.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/exception/SuperCsvException.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/RequireHashCode.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ParseInt.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/constraint/UniqueHashCode.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/encoder/SelectiveCsvEncoder.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/AbstractCsvWriter.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvListReader.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/encoder/CsvEncoder.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/util/BeanInterfaceProxy.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/exception/SuperCsvConstraintViolationException.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/ft/StringCellProcessor.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/cellprocessor/FmtBool.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvBeanReader.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvBeanWriter.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvMapReader.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/io/ICsvMapWriter.java
* /opt/cola/permits/1001043329_1646171575.62/0/super-csv-2-4-0-sources-jar/org/supercsv/prefs/CsvPreference.java
1.2546 httpplib 0.12.1

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1.2547 pythonurllib 1.19.1-1+deb9u1

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# Contributions to the urllib3 project

## Creator & Maintainer

* Andrey Petrov <andrey.petrov@shazow.net>

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

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

* brandon-rhodes <http://rhodesmill.org/brandon>
  * Design review, bugfixes, test coverage.

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

* Shivaram Lingamneni <slingamn@cs.stanford.edu>
  * Support for explicitly closing pooled connections

* hartator <hartator@gmail.com>
  * 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@ravellosystems.com>
  * Allowed to skip SSL hostname verification
* Cory Benfield <http://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 <http://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 <http://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

* Jon Wayne Parrott <jonwayne@google.com>
  * App Engine environment tests.

* 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 Vandenberg <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

* Jesse 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.

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

1.2548 zerolog 1.26.0
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1.2549 pstore 0.1.0

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1.2550 libglx-mesa0 21.2.6-0ubuntu0.1~20.04.2

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libfreedreno_layout = static_library(
    'freedreno_layout',
    [  
        'fd5_layout.c',
        'fd6_layout.c',
        'freedreno_layout.c',
    ],
    include_directories : [inc_freereno, inc_include, inc_src, inc_mapi, inc_mesa, inc_gallium, inc_gallium_aux],
    c_args : [no_override_init_args],
    gnu_symbol_visibility : 'hidden',
    dependencies : [idep_nir_headers, idep_mesautil],
)
build_by_default : false,
)

foreach major : ['5', '6']
test(
	'fd' + major + '_layout',
executable(
	'fd' + major + '_layout',

[  
	'fd_layout_test.c',
	'fd' + major + '_layout_test.c',
	freedreno_xml_header_files,
],
link_with: libfreedreno_layout,
dependencies : idep_mesautil,
include_directories: [
	inc_include,
	inc_src,
	inc_mapi,
	inc_mesa,
	inc_gallium,
	inc_gallium_aux,
	inc_freedreno],
),
suite : ['freedreno'],
)
endforeach
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1.2551 importlib-resources 5.6.0

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1.2552 jackc-pgconn 1.12.0

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1.2553 postgresql 13.4-1.pgdg90+1

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******************************************************************************

PostgreSQL adopted the code out of Tcl 8.4.1. Portions of rege_locale.c
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1.2554 faraday-retry 1.0.3

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1.2556 debian-archive-keyring
2019.1+deb10u1
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This package was originally put together by Michael Vogt <mvo@debian.org>

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1.2557 zerolog 1.23.0
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1.2558 sensible-utils 0.0.12

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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-
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* /opt/cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/aten/ConflictInfo.java
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* /opt/ cola/permits/1000876358_1646171538.93/0/antlr4-runtime-4-5-3-sources-jar/org/antlr/v4/runtime/misc/Tuple2.java
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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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**1.2569 kustomize-kyaml 0.13.0**

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1.2570 logstash-filter-drop 3.0.5

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1.2571 psycopg 2.8.6-2~pgdg90+1

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### 1.2572 paquet 0.2.1

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```ruby
!ruby/object:Gem::Specification
name: paquet
version: !ruby/object:Gem::Version
  version: 0.2.1
platform: ruby
authors:
  - Elastic
autorequire:
  bindir: exe
cert_chain: []
date: 2017-03-24 00:00:00.000000000 Z
dependencies:
  - !ruby/object:Gem::Dependency
    requirement: !ruby/object:Gem::Requirement
      requirements:
        - ">="
        - !ruby/object:Gem::Version
          version: '0'
name: rspec
prerelease: false
type: :development
version_requirements: !ruby/object:Gem::Requirement
  requirements:
    - ">="
    - !ruby/object:Gem::Version
      version: '0'
- !ruby/object:Gem::Dependency
  requirement: !ruby/object:Gem::Requirement
    requirements:
      - ">="
      - !ruby/object:Gem::Version
        version: '0'
name: pry
prerelease: false
type: :development
version_requirements: !ruby/object:Gem::Requirement
  requirements:
    - ">="
    - !ruby/object:Gem::Version
      version: '0'
```
requirement: !ruby/object:Gem::Requirement
requirements:
  - ~> 2.2.0
name: webmock
prerelease: false
type: :development
version_requirements: !ruby/object:Gem::Requirement
requirements:
  - ~> 2.2.0
- !ruby/object:Gem::Dependency
requirement: !ruby/object:Gem::Requirement
requirements:
  - >= 0
name: stud
prerelease: false
type: :development
version_requirements: !ruby/object:Gem::Requirement
requirements:
  - >= 0
description: This gem add a few rake tasks to create a uber gems that will be shipped as a zip
description: 
email: info@elastic.co
eventual_rdoc_files: []
files:
  - ./lib/paquet.rb
  - ./lib/paquet/dependency.rb
  - ./lib/paquet/gem.rb
  - ./lib/paquet/rspec/tasks.rb
  - ./lib/paquet/shell_ui.rb
  - ./lib/paquet/utils.rb
  - ./lib/paquet/version.rb
homepage: https://github.com/elastic/logstash
licenses:
  - Apache License (2.0)
metadata: {}
post_install_message:
rdoc_options: []
require_paths:
  - lib
required_ruby_version: !ruby/object:Gem::Requirement
requirements:
  - - ">="
    - !ruby/object:Gem::Version
      version: 0'
required_rubygems_version: !ruby/object:Gem::Requirement
requirements:
  - - ">="
    - !ruby/object:Gem::Version
      version: 0'
requirements: []
rubyforge_project:
rubygems_version: 2.4.8
signing_key:
specification_version: 4
summary: Rake helpers to create a uber gem
test_files: []

Found in path(s):
  * /opt/cola/permits/1156528920_1619204972.11/0/paquet-0-2-1-gem/metadata-gz/metadata

1.2573 acl 2.2.53 6

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1.2583 ruby2_keywords 0.0.2

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# ruby2_keywords

Provides empty `Module#ruby2_keywords` method, for the forward source-level compatibility against ruby2.7 and ruby3.

## Installation

Add this line to your application's Gemfile:

```ruby
'''
ruby
gem 'ruby2_keywords'
'''

And then execute:

$ bundle

Or install it yourself as:

$ gem install ruby2_keywords

## Usage

For class/module instance methods:

```ruby
'''
ruby
require 'ruby2_keywords'

module YourModule
  ruby2_keywords def delegating_method(*args)
    other_method(*args)
  end
end
'''

For global methods:

```ruby
'''
ruby
require 'ruby2_keywords'

ruby2_keywords def oldstyle_keywords(options = { })
end
## Contributing

Bug reports and pull requests are welcome on GitHub at https://bugs.ruby-lang.org.

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Found in path(s):
* /opt/cola/permits/1145788629_1616451719.58/0/ruby-ruby2-keywords-v0-0-2-0-ga198860-tar-gz/ruby-ruby2_keywords-a198860/README.md

### 1.2584 logstash-patterns-core 4.3.2

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1.2585 commons-collections 3.2.2

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1.2587 kubernetes-api 0.22.4

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