Open Source Used In Crosswork Platform Infrastructure cw-infra-4.1.0-dockerimages-clean

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/SslClientHelloHandler.java
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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/ssl/AbstractSniHandler.java

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* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-jar/io/netty/handler/traffic/package-info.java

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jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /opt/ws_local/PERMITS_SQL/1068233959_1594326118.13/0/netty-handler-4-1-50-final-sources-1-
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jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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jar/io/netty/handler/ssl/ExtendedOpenSslSession.java

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jar/io/netty/handler/ssl/SslHandshakeTimeoutException.java
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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) {
        }
    }
}

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:
{
" = =
| "\t"
| "\n"
| "\r"
}

SPECIAL_TOKEN:
{
"//" : WithinOneLineComment
}

<WithinOneLineComment> SPECIAL_TOKEN:
{
<("\n" | "\r" | "\r\n")> : DEFAULT
}

<WithinOneLineComment> MORE:
{
<~[]>
}

SPECIAL_TOKEN:
{
"/#" : WithinMultiLineComment
}

<WithinMultiLineComment> SPECIAL_TOKEN:
{
"/#" : DEFAULT
}

<WithinMultiLineComment> MORE:
{
<~[]>
}

TOKEN:
{
<MODULE_TKN: "module" >
| <RECORD_TKN: "class" >
| <INCLUDE_TKN: "include" >
| <BYTE_TKN: "byte" >
| <BOOLEAN_TKN: "boolean" >
| <INT_TKN: "int" >
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 + " 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;
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(); }
| <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); }
}

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
jar/org/apache/jute/compiler/generated/rcc.jj
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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/RccConstants.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/Rcc.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/ParseException.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/TokenMgrError.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/SimpleCharStream.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/Token.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/jute/compiler/generated/RccTokenManager.java

Found in path(s):
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar/org/apache/zookeeper/proto/ConnectRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-
  jar
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jar/org/apache/zookeeper/server/quorum/LearnerInfo.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/GetMaxChildrenResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/data/Stat.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/CreateResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SetWatches.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/ConnectResponse.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/CheckWatchesRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/server/quorum/QuorumPacket.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/CreateContainerTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/MultiHeader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/ReplyHeader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/data/Id.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/GetMaxChildrenRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/RemoveWatchesRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SetWatches2.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/CreateSessionTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/MultiTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SetACLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/SetSASLRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/txn/CreateTxn.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/CheckVersionRequest.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/zookeeper/proto/CheckVersionResponse.java

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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/Utils.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/CSharpGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JRecord.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JRecordReader.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JField.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/CppGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JCompType.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/Index.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JInt.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JMap.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/BinaryInputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JFile.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JLong.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JDouble.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/LongInputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/JType.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/BinaryOutputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/compiler/JBuffer.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/compiler/CGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/compiler/JByte.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/compiler/JGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/Record.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/toStringOutputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/OutputArchive.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/compiler/JBoolean.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/compiler/JGenerator.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/RecordWriter.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/compiler/JFloat.java
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1.jar/org/apache/jute/compiler/JString.java

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* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/compiler/package.html
* /opt/cola/permits/1136663495_1613850785.01/0/zookeeper-jute-3-6-2-sources-1-jar/org/apache/jute/package.html

1.6 py3-urllib 1.26.5-r0

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1.7 grpc-go 1.23.0

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1.8 jetty-util 8.1.7.v20120910

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* /opt/cola/permits/1001043709_1606874190.6/0/zipkin-sender-okhttp3-0-10-0-sources-1-jar/zipkin/reporter/okhttp3/RequestBodyMessageEncoder.java
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* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/netty_epoll_linuxsocket.h
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/netty_epoll_linuxsocket.c

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* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/EpollTcpInfo.java
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* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/package-info.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/EpollEventLoop.java
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* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/cola/permits/1177956784_1625584654.92/0/netty-transport-native-epoll-4-1-48-final-sources-5-jar/io/netty/channel/epoll/TcpMd5Util.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="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a> for more details.
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* /opt/cola/permits/1177956784_1625584654.92/netty-transport-native-epoll-4-1-48-final-sources-5.jar/io/netty/channel/epoll/EpollSocketChannelConfig.java

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1.17 postgre-sql 13.4-r0

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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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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

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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.

1.25 json-iterator-go 1.1.10

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1.26 x-crypto 0.0.0-20210616213533-5ff15b29337e
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1.27 groovy-extensions 0.3.0

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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources.jar/io.netty/channel/local/LocalEventLoopGroup.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>
*
* A {@link ChannelHandlerContext} object. A {@link ChannelHandlerContext} 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 ChannelHandlerContext} 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<Message>} {
*
*     private boolean loggedIn;
* 
*     @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}&lt;{@link Channel}&gt; {
  *     {@code @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
  * }
  *
  * {@code @Sharable}
  * public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
  *     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
  *           AttributeKey.valueOf("auth");
  *     {
  *         // your methods here
  *     }
  * }
  * </pre>

  * <h4>Using Attribute Keys</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 Attribute Keys which is provided by

  * <pre>
  * public interface Message {
  *     // your methods here
  * }
  *
  * @code @Sharable
  * public class DataServerHandler extends @link SimpleChannelInboundHandler]&lt;Message&gt; {
  *     private final @link AttributeKey]&lt;Boolean&gt; auth =
  *           AttributeKey.valueOf("auth");
  *     {
  *         // your methods here
  *     }
  * </pre>

  * }
* Now that the state of the handler is attached to the \{@link ChannelHandlerContext\}, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends \{@link ChannelInitializer\}\{\@Channel\}\{:

* private static final DataServerHandler \texttt{SHARED} = new DataServerHandler();

* \{\@code \@Override\}

* public void initChannel(\{\@Channel\} channel) {

*     channel.pipeline().addLast("handler", \texttt{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.

* <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 \texttt{the JCIP annotations}.\texttt{the JCIP annotations}

* <p>

* <h3>Additional resources worth reading</h3>

* 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 \texttt{the JCIP annotations}.\texttt{the JCIP annotations}

* <p>

* <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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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/ChannelHandler.java

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jar/io/netty/channel/ChannelProgressiveFutureListener.java
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jar/io/netty/channel/ChannelFactory.java
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jar/io/netty/channel/embedded/EmbeddedChannelId.java
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* /opt/ws_local/PERMITS_SQL/1072948476_1595240756.51/0/netty-transport-4-1-51-final-sources-jar/io/netty/channel/SelectStrategy.java

1.30 pierrec-lz4 2.6.1+incompatible

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1.34 color 1.9.0

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

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

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jar/org/springframework/scheduling/SchedulingTaskExecutor.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/validation/AbstractPropertyBindingResult.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/validation/Validator.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/scripting/support/ScriptFactoryPostProcessor.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/cache/annotation/EnableCaching.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-
jar/org/springframework/remoting/support/RemoteAccessException.java
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jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scripting/support/ResourceScriptSource.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/format/support/FormattingConversionService.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scheduling/support/CronSequenceGenerator.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/instrument/classloading/WeavingTransformer.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/cache/interceptor/CacheableOperation.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/cache/interceptor/CacheEvictOperation.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/cache/config/CacheManagementConfigUtils.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/format/datetime/joda/JodaTimeConverters.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/annotation/ScopedProxyCreator.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/annotation/ScopedProxyCreator.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/annotation/ScopedProxyCreator.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scripting/bsh/BshScriptUtils.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/configuration/MBeanServerBeanDefinitionParser.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/scheduling/config/TaskManagementConfigUtils.java
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* /org/springframework/instrument/classloading/websphere/WebSphereClassPreDefinePlugin.java
* /org/springframework/jmx/export/notification/ModelMBeanNotificationPublisher.java
* /org/springframework/context/annotation/DependsOn.java
* /org/springframework/remoting/support/SimpleHttpServerFactoryBean.java
* /org/springframework/cache/interceptor/AbstractFallbackCacheOperationSource.java
* /org/springframework/context/Lifecycle.java
* /org/springframework/jndi/JndiObjectFactoryBean.java
* /org/springframework/scheduling/annotation/EnableAsync.java
* /org/springframework/validation/BeanValidationPostProcessor.java
* /org/springframework/context/annotation/ProfileCondition.java
* /org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /org/springframework/context/expression/MethodBasedEvaluationContext.java
* /org/springframework/remoting/rmi/RmiServiceExporter.java
* /org/springframework/ui/context/support/ResourceBundleThemeSource.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/event/PostProcessorRegistrationDelegate.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/AbstractErrors.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/MapBindingResult.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/DefaultFormattingConversionService.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/ManagedAttribute.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/ContextAnnotationAutowiredCandidateResolver.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/jmx/export/annotation/ManagedAttribute.java
* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/jmx/export/annotation/ContextAnnotationAutowiredCandidateResolver.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/validation/validation/MapBindingResult.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/ContextAnnotationAutowiredCandidateResolver.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/validation/validation/MapBindingResult.java
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/support/ContextAnnotationAutowiredCandidateResolver.java
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- jar/org/springframework/context/annotation/Configuration.java
- jar/org/springframework/context/validation/AbstractBindingResult.java
- jar/org/springframework/context/support/AbstractApplicationContext.java
- jar/org/springframework/context/annotation/ScopedProxyMode.java
- jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
- jar/org/springframework/context/annotation/ConfigurationClassParser.java
- jar/org/springframework/context/annotation/ConfigurationClassBeanDefinitionReader.java
- jar/org/springframework/context/ConfigurableApplicationContext.java
- jar/org/springframework/scheduling/concurrent/DefaultManagedTaskExecutor.java
- jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
- jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
- jar/org/springframework/format/annotation/DateTimeFormat.java
- jar/org/springframework/cache/interceptor/SimpleKey.java
- jar/org/springframework/jmx/support/RegistrationPolicy.java
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- jar/org/springframework/context/annotation/DeferredImportSelector.java
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- jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java

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

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 *
 * Does not provide a way to transmit checked exceptions but
 * provide a special exception that should be used to wrap any
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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java

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* /opt/cola/permits/1135872461_1613620742.75/0/spring-context-5-2-12-release-sources-jar/org/springframework/context/PayloadApplicationEvent.java
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 */
/**
 * Indicates that a component is only eligible for registration when all
 * [@linkplain #value specified conditions] match.
 *
 * <p>A <em>condition</em> is any state that can be determined programatically
 * before the bean definition is due to be registered (see [@link Condition] for details).
 *
 * <p>The [@code @Conditional] annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * [@code @Component], including [@link Configuration @Configuration] classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any [@link Bean @Bean] method</li>
 * </ul>
 *
 * <p>If a [@code @Configuration] class is marked with [@code @Conditional],
* all of the [@code @Bean] methods, [@link Import @Import] annotations, and
* [@link ComponentScan @ComponentScan] annotations associated with that
* class will be subject to the conditions.
* 
* <p><strong>NOTE</strong>: Inheritance of [@code @Conditional] annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* [@code @Conditional] itself is not declared as
* [@link java.lang.annotation.Inherited @Inherited]; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* [@code @Conditional] must not be declared as [@code @Inherited].
* 
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

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1.37 spring-web 5.3.5

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*
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* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty-buffer/PooledDirectByteBuf.java
* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty-buffer/AbstractByteBufAllocator.java
* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty-buffer/PoolChunk.java
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* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty-buffer/PoolArena.java
* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty-buffer/AbstractByteBuf.java
* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty-buffer/PoolSubpage.java
* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty-buffer/package-info.java
jar/io/netty/buffer/ReadOnlyByteBuf.java
* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty/buffer/UnpooledByteBufAllocator.java
* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty/buffer/UnpooledHeapByteBuf.java
* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty/buffer/UnpooledUnsafeDirectByteBuf.java
* /opt/cola/permits/1112470209_1612183930.61/0/netty-buffer-4-1-17-final-sources-jar/io/netty/buffer/Unpooled.java
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1.42 spring-tx 5.3.5

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* /opt/cola/permits/1148544983_1617703667.85/0/spring-tx-5-3-5-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
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1.47 shiro-lang 1.7.0
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1.48 jctools-core 3.0.0

1.48.1 Available under license:
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* /opt/cola/permits/1177956791_1625584358.42/jctools-core-3-0-0-5-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

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Manifest-Version: 1.0
Bnd-LastModified: 1578049665284
Build-Jdk: 1.8.0_232
Built-By: yak
Bundle-Description: Java Concurrency Tools Core Library
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Java Concurrency Tools Core Library
Bundle-SymbolicName: org.jctools.core
Bundle-Version: 3.0.0
Created-By: Apache Maven Bundle Plugin
Export-Package: org.jctools.maps;version="3.0.0",org.jctools.util;version="3.0.0",org.jctools.queues;version="3.0.0",org.jctools.queues.spec;version="3.0.0",org.jctools.queues.atomic;version="3.0.0"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-4.2.0.201903051501

Found in path(s):
* /opt/cola/permits/1177956791_1625584358.42/0/jctools-core-3-0-0-5-jar/META-INF/MANIFEST.MF

1.49 json-java 20131018
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1.50 flyway-core 7.7.3

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* /opt/cola/permits/1165509692_1621030354.93/0/flyway-core-7-7-3-sources-jar/org/flywaydb/core/internal/schemahistory/AppliedMigration.java
* /opt/cola/permits/1165509692_1621030354.93/0/flyway-core-7-7-3-sources-jar/org/flywaydb/core/internal/logging/slf4j/package-info.java
* /opt/cola/permits/1165509692_1621030354.93/0/flyway-core-7-7-3-sources-jar/org/flywaydb/core/api/resolver/Context.java
* /opt/cola/permits/1165509692_1621030354.93/0/flyway-core-7-7-3-sources-
* /opt/cola/permits/1165509692_1621030354.93/0/flyway-core-7-7-3-sources-jar/org/flywaydb/core/api/output/CompositeResult.java
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* /opt/cola/permits/1165509692_1621030354.93/0/flyway-core-7-7-3-sources-jar/org/flywaydb/core/implementation/util/ClassUtils.java
* /opt/cola/permits/1165509692_1621030354.93/0/flyway-core-7-7-3-sources-jar/org/flywaydb/core/core/api/ErrorDetails.java
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1.52 jersey-container-servlet-core 2.31

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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/rmi/Proxy.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/ast/Visitor.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/Loader.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/TokenId.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java
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* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/tools/proxy/MethodHandler.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/compiler/ast/TransformNew.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/scopedpool/ScopedClassPoolRepository.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/NoFieldException.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/SyntaxError.java
* /opt/cola/permits/1135872664_1613621010.52/0/javassist-3-27-0-ga-sources-1-jar/javassist/compiler/TokenId.java
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1.57 fsnotify 1.3.1

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1.58 go-capability 0.0.0-20200815063812-42c35b437635

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1.59 urfave-cli 1.22.1

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1.60 spring-web-mvc 5.2.12.RELEASE

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 * Set the [TCP_MD5SIG] option on the socket. See [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 [TCP_QUICKACK] option on the socket. See <a href="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a> for more details.
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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4-1-45-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
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  jar/io/netty/channel/epoll/EpollDatagramChannel.java
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* /opt/ws_local/PERMITS_SQL/1074832144_1595959525.4/0/netty-transport-native-epoll-4.1.45-final-sources-
  jar/io/netty/channel/epoll/EpollSocketChannel.java
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  jar/io/netty/channel/epoll/Epoll.java
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## CUP Parser Generator for Java v 0.11b

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/netty-transport-native-unix-common-4-1-51-final-sources-jar/io/netty/channel/unix/UnixChannelUtil.java
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sources-jar/io/netty/channel/unix/DomainSocketChannel.java
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sources-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java

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1.80 curator-framework 5.1.0

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1.83 go-runtime 1.15.6

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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/search/AhoCorasicSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/search/AbstractSearchProcessorFactory.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/search/MultiSearchProcessor.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/search/SearchProcessorFactory.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/ByteBufAllocatorMetric.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/PooledByteBufAllocatorMetric.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/ByteBufInputstream.java
* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io/netty/buffer/AbstractByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1072948616_1595240775.72/0/netty-buffer-4-1-51-final-sources-jar/io.netty.buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java

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* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
  jar/io/netty/handler/address/ResolveAddressHandler.java
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jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
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jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
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jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
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jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
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jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
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jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-
jar/io/netty/handler/ssl/OpenSslKeyMaterial.java
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jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
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jar/io/netty/handler/ssl/OpenSslPrivateKey.java
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jar/io/netty/handler/ssl/OpenSslSession.java
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- SniHandler.java
- JdkSslEngine.java
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- JdkBaseApplicationProtocolNegotiator.java
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- JdkApplicationProtocolNegotiator.java
- OpenSslDefaultApplicationProtocolNegotiator.java
- ApplicationProtocolConfig.java
- JdkSslContext.java
- OpenSslServerSessionContext.java
- JdkApplicationProtocolNegotiator.java
- OpenSslDefaultApplicationProtocolNegotiator.java
- ApplicationProtocolConfig.java
- JdkSslEngineMap.java
- ApplicationProtocolNegotiator.java
- traffic/GlobalChannelTrafficCounter.java
- OpenSslInpnApplicationProtocolNegotiator.java
- OpenSslJava
- SslUtil/ThreadLocalInsecureRandom.java
- SslUtil/InsecureTrustManagerFactory.java
- SslUtil/OpenJdkSelfSignedCertGenerator.java
- SslUtil/OpenJdkSelfSignedCertGenerator.java
jar/io/netty/handler/ssl/SslProvider.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /opt/cola/permits/1177956799_1625584593.27/0/netty-handler-4-1-48-final-sources-4-jar/io/netty/handler/ssl/SslContext.java

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jar/io/netty/handler/ssl/util/package-info.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

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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
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
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import (
    dao "github3.cisco.com/ROBOT/infra-utils/golang/nso/dao/impl"
)
type Smart_license struct {
    dao.Dao
    Development_mode bool `json:"development-mode,omitempty"`
}
func (e *Smart_license) GetDevelopment_mode() bool {
    e.Conn_.GET(e)
    return e.Development_mode
}
func (e *Smart_license) SetDevelopment_mode(v bool) {
    e.Development_mode = v
}
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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL and Apache APR.
Auto-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=macosx;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_232

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  jar/com/nimbusds/langtag/LangTag.java
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  jar/com/nimbusds/langtag/ReadOnlyLangTag.java
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1.116 aws-sdk-go 1.15.24

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package main

import (
    "bufio"
    "bytes"
const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

-h  prints this message and exits
```

func crUsage(w io.Writer) {
  fmt.Fprintf(w, crUsageString)
}

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Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.`
```

func goComment(text string) string {
  buf := new(bytes.Buffer)
  var err error
  for scanner.Scan() {
    s := strings.TrimSpace(scanner.Text())
    if len(s) == 0 {
      continue
    }
    if _, err = fmt.Fprintf(buf, "//", s); err != nil {
      panic(err)
    }
  }
  if err = scanner.Err(); err != nil {
    panic(err)
  }
  if err = scanner.Err(); err != nil {
    panic(err)
  }
  if _, err = fmt.Fprintf(buf); err != nil {
    panic(err)
  }
  return buf.String()
}
var goCopyright = goComment(copyrightText)

func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    out := bufio.NewWriter(dst)
    fmt.Fprintf(out, goCopyright)
    scanner := bufio.NewScanner(src)
    line := 0
    del := false
    for scanner.Scan() {
        line++
        txt := scanner.Text()
        if line == 1 && strings.Contains(txt, "Copyright") {
            del = true
            continue
        }
        if del {
            s := strings.TrimSpace(txt)
            if len(s) == 0 {
                del = false
            }
            continue
        }
        fmt.Fprintf(out, txt)
        if err = scanner.Err(); err != nil {
            return err
        }
    }
}
if err = out.Flush(); err != nil {
    return
}

err = os.Rename(newPath, path)
return

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), "go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)
    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
    help := flag.Bool("h", false, "")
    flag.Parse()
    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }
    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
            continue
        }
    }
}

flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
help := flag.Bool("h", false, "")
flag.Parse()
if *help {
crUsage(os.Stdout)
oExit(0)
}

for _, path := range flag.Args() {
    fi, err := os.Stat(path)
    if err != nil {
        log.Print(err)
        continue
    }
    if !fi.IsDir() {
        log.Printf("%s is not a directory", path)
        continue
    }
}
if err := filepath.Walk(path, walkCopyrights); err != nil {
    log.Fatalf("%s error %s", path, err)
}

1.119 cloud-google-com-go 0.70.0
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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
    })
if ext := filepath.Ext(path); ext != "".go"" && ext != "".proto"" {
    return nil
}
if strings.HasSuffix(path, ".pb.go") {
    // .pb.go files are generated from the proto files.
    // .proto files must have license headers.
    return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
    // Automatically generated.
    return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
    // BSD license, which is compatible, is embedded in the file.
    return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
}
if err != nil {
    t.Fatal(err)
}

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1.120 gosqlite 1.14.7-0.20210414154423-1157a4212dcb

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1.121 gophercloud-utils 0.0.0-20200423144003-7c72efc7435d

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1.126 semver4j 3.1.0

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</project>

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* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParser.java
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* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserByteArray.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserBase.java
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* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserStream.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserString.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
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* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserMemory.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/ParseException.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserByteArray.java
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* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
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* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java
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* /opt/cola/permits/1209129301_1633010713.35/0/json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserReader.java

1.128 simpleclient-servlet 0.6.0

1.129 spring-jdbc 5.3.5
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* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
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* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/simple/SimpleJdbcInsert.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/support/PassThroughBlob.java
jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/support/lob/PassThroughClob.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/core/JdbcTemplate.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/core/JdbcTemplate.java
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jar/org/springframework/jdbc/core/JdbcTemplate.java
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jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
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jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java

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jar/org/springframework/jdbc/core/JdbcTemplate.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-
jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
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* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/SqlProvider.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
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* /opt/cola/permits/114854910_1618994169.69/0/spring-jdbc-5.3.5-sources.jar/org/springframework/jdbc/support/MetaDataAccessException.java
* /opt/cola/permits/114854910_1618994169.69/0/spring-jdbc-5.3.5-sources.jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java
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* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java

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 */

/**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 *
 * @author Rod Johnson
 * @author Thomas Risberg
 * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
 */

/**
 * Create a Map of input parameters, keyed by name.
 * @param con a JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @return a Map of input parameters, keyed by name (never { @code null})
 * @throws SQLException if an SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 */

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* limitations under the License.
*/
/**
* Strategy interface for translating between {@link SQLException SQLExceptions}
* and Spring's data access strategy-agnostic {@link DataAccessException}
* hierarchy.
* <p>Implementations can be generic (for example, using
* { @link java.sql.SQLException#SQLExceptionSQLState() SQLState } codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
* 
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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* /opt/cola/permits/1148544910_1618994169_69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
* /opt/cola/permits/1148544910_1618994169_69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /opt/cola/permits/1148544910_1618994169_69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
* /opt/cola/permits/1148544910_1618994169_69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java

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/**
 * The classes in this package make JDBC easier to use and
 * reduce the likelihood of common errors. In particular, they:
 * <ul>
 * <li>Simplify error handling, avoiding the need for try/catch/finally
 * blocks in application code.
 * <li>Present exceptions to application code in a generic hierarchy of
 * unchecked exceptions, enabling applications to catch data access
 * exceptions without being dependent on JDBC, and to ignore fatal
 * exceptions there is no value in catching.
 * </li>
 * <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>
* 
* This package and related packages are discussed in Chapter 9 of
* by Rod Johnson (Wrox, 2002).
*/

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* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
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* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/CentralizedDataSource.java
* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/TemporaryDataSourceCreator.java
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* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources-jar/org/springframework/jdbc/datasource/lookup/DataSourceLookup.java
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* /opt/cola/permits/1148544910_1618994169.69/0/spring-jdbc-5-3-5-sources.jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
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    URL  string `json:"url,omitempty"`
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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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1.138 metrics-annotation 3.2.5

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1.140 go-yaml 3.0.0-20200615113413-eeeca48fe776

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1.141 go-systemd 22.3.2

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1.148 nats 1.7.2

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* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/ChannelFactory.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/AbstractEventLoop.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/PendingWriteQueue.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>
 * 
 * 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>
 *
 * For more information, please refer to the documentation of each subtype.
 */
The context object

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

State management

A `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
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        Channel ch = e.getChannel();
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            loggedIn = true;
        } else if (message instanceof GetDataMessage) {
            if (loggedIn) {
                ch.write(fetchSecret((GetDataMessage) message));
            } else {
                fail();
            }
        }
    }

    // Create a new handler instance per channel.
    // See ChannelInitializer#initChannel(ReferenceChannel).
```
* public class DataServerInitializer extends [link ChannelInitializer]&lt;[link Channel]&gt; {  
*     {@code @Override}  
*     public void initChannel([link Channel] channel) {  
*         channel.pipeline().addLast("handler", new DataServerHandler());  
*     }  
* }  
* </pre>  
*  
* &lt;h4&gt;Using [link AttributeKey]s&lt;/h4&gt;  
*  
* 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]:  
* &lt;pre&gt;  
* public interface Message {  
*     // your methods here  
* }  
*  
*    {code @Sharable}  
* public class DataServerHandler extends [link SimpleChannelInboundHandler]&lt;Message&gt; {  
*     private final [link AttributeKey]&lt;Boolean&gt; auth =  
*         {link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};  
*  
*     {code @Override}  
*     public void channelRead([link ChannelHandlerContext] ctx, Message message) {  
*         [link Attribute]&lt;Boolean&gt; attr = ctx.attr(auth);  
*         [link Channel] ch = ctx.channel();  
*         if (message instanceof LoginMessage) {  
*             authenticate((LoginMessage) o);  
*             attr.set(true);  
*         } else (message instanceof GetDataMessage) {  
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {  
*                 ch.write(fetchSecret((GetDataMessage) o));  
*             } else {  
*                 fail();  
*             }  
*         }  
*         }  
*         }  
*     }  
* }  
* &lt;/pre&gt;  
*  
* Now that the state of the handler is attached to the [link ChannelHandlerContext], you can add the  
* same handler instance to different pipelines:  
* &lt;pre&gt;  
* public class DataServerInitializer extends [link ChannelInitializer]&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>
* <p>
* 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
* 
* <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/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/socket/io/OioSocketChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/socket/io/OioServerSocketChannelConfig.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/ChannelId.java
* /opt/cola/permits/1112470221_1607093049.81/0/netty-transport-4-1-17-final-sources-1-jar/io/netty/channel/AbstractEventLoopGroup.java
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1.150 ordered-set 4.0.2

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1.153 google-api-go-client 0.33.0

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package api

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "regexp"
    "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\)\*\( All rights reserved\)\*\n(//|#) Use of this source code is governed by a BSD-style\n(//|#) license that can be found in the LICENSE file.\')

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
"tools.go": true, // This file requires another comment above the license.
"internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
"internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
    err := filepath.Walk(",", func(path string, fi os.FileInfo, err error) error {
        if skip[path] {
            return nil
        }

        if err != nil {
            return err
        }

        if filepath.Ext(path) != ".go" && filepath.Ext(path) != ".sh" {
            return nil
        }

        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }

        // Verify that the license is matched.
        if !sentinel.Match(src) {
            t.Errorf("%v: license header not present", path)
            return nil
        }

        // Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
        if filepath.Ext(path) == ".go" && bytes.HasPrefix(src, []byte(prefix)) {
            t.Errorf("%v: license header not at the top", path)
        }

        return nil
    })
    if err != nil {
        t.Fatal(err)
    }
}

1.154 netty-handler 4.1.51.Final
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* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/TrustManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SimpleKeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/address/DynamicAddressConnectHandler.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/KeyManagerFactoryWrapper.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKeyMethod.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/address/package-info.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/PseudoRandomFunction.java
* /opt/ws_local/PERMITS_SQL/1072948687_1595240769.66/0/netty-handler-4-1-51-final-sources-jar/io/netty/handler/ssl/SslMasterKeyHandler.java

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PemPrivateKey.java
ReferenceCountedOpenSslServerContext.java
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ReferenceCountedOpenSslEngine.java
PemEncoded.java
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X509TrustManagerWrapper.java
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jar/io/netty/handler/ssl/Conscrypt.java
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python’s principal author, although it includes many contributions from others.

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

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

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* /opt/cola/permits/1135872409_1613620769.24/0/ehcache-3-8-1-sources-1-jar/META-INF/maven/org.ehcache.modules/ehcache-107/pom.xml
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org.ehcache.jsr107.internal.Jsr107CacheConfigurationParser

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jar/com/sun/msv/datatype/xsd/Messages.properties
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jar/com/sun/msv/datatype/xsd/Messages_ja.properties

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  * /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/message_ja.properties
  * /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/message.properties
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  /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/regexp/RegexParser.java

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* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/xsd/datetime/DateTimeFactory.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/xsd/datetime/BigTimeDurationValueType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/xsd/NonPositiveIntegerType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/xsd/MinInclusiveFacet.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/xsd/SimpleURType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/xsd/XSDatatype.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/xsd/WhiteSpaceFacet.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
  jar/com/sun/msv/datatype/xsd/SerializationContext.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
jar/com/sun/msv/datatype/xsd/IntegerDerivedType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/regex/JDKImpl.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/UnionType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/Comparator.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/NormalizedStringType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/QnameValueType.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/xml/util/XmlChars.java
* /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-jar/com/sun/msv/datatype/xsd/datetime/ITimeDurationValueType.java
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    jar/com/sun/msv/datatype/regexp/ParseException.java
  * /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
    jar/com/sun/msv/datatype/regexp/RegularExpression.java
  * /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
    jar/com/sun/msv/datatype/regexp/Match.java
  * /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
    jar/com/sun/msv/datatype/regexp/Op.java
  * /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
    jar/com/sun/msv/datatype/regexp/REUtil.java
  * /opt/cola/permits/1177942015_1625571932.43/0/xsdlib-2013-6-1-sources-2-
    jar/com/sun/msv/datatype/regexp/BMPattern.java

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1.173 musl 1.2.2-r3

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  */opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractSequentialIterator.java
  */opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ForwardingListMultimap.java
  */opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/RowSortedTable.java
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*/
/**
* Holder for web specializations of methods of {@code Floats}. Intended to be empty for regular
* version.
*/

Found in path(s):
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/FloatsMethodsForWeb.java
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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/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/ExtraObjectsMethodsForWeb.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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*/
/*
* This following method is a modified version of one found in
* http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30
* which contained the following notice:
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/package-info.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/CollectSpliterators.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/ImmutableDoubleArray.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/ImmutableIntArray.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/AbstractHashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingCondition.java
jar/com/google/common/util/concurrent/ForwardingLock.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/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/AbstractScheduledService.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/Hashing.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-collect/Queues.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-collect/TreeRangeSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-util/hash/Murmur3_32HashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-hash/AbstractStreamingHasher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-util/primitives/UnsignedInteger.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-cache/AbstractCache.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-collect/DescendingImmutableSortedMultiset.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-util/concurrent/AbstractListeningExecutorService.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-collect/RegularContiguousSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/math/MathPreconditions.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/math/package-info.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-util/concurrent/ListeningScheduledExecutorService.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-cache/RemovalNotification.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common-hash/HashFunction.java
jar/com/google/common/net/HttpHeaders.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/base/PairwiseEquivalence.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/util/concurrent/ExecutionError.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/cache/package-info.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/Present.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/Funnel.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/MessageDigestHashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/net/MediaType.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/ParseRequest.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/AbstractNonStreamingHashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/math/LongMath.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/cache/LoadingCache.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collect/AbstractSortedMultiset.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/PrimitiveSink.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/BloomFilter.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/AbstractHasher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/cache/RemovalCause.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/cache/Weigher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/cache/BloomFilterStrategies.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/cache/Cache.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/util/concurrent/ForwardingExecutorService.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/hash/Crc32cHashFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/cache/ForwardingLoadingCache.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collect/EmptyContiguousSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/cache/CacheStats.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/Murmur3_128HashFunction.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/ Enums.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/Optional.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/math/BigIntegerMath.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/BoundType.java
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  jar/com/google/common/collect/ImmutableSetMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/collect/SingletonImmutableTable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/collect/ImmutableEnumSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/collect/AbstractIndexedListIterator.java
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  jar/com/google/common/collect/ImmutableClassToInstanceMap.java
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  jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java
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  jar/com/google/common/collect/SingletonImmutableList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/collect/ComputationException.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/ComparisonChain.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/ImmutableAsList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/RegularImmutableList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/DiscreteDomain.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/RegularImmutableSortedSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/ArrayTable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/collect/EmptyImmutableSetMultimap.java

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 */
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is “safe” in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 * 
 * <p>This method assumes that the collection size doesn't change while the method is running.
 * 
 * <p>TODo(kevinb): support concurrently modified collections?
 * 
 * @param c the collection for which to return an array of elements
 */
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ObjectArrays.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/hash/ImmutableSupplier.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/ExecutionSequencer.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/JdkBackedImmutableSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/profiler/Profiler.java
*/
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/**
 * Holder for web specializations of methods of [@code Ints]. Intended to be empty for regular
 * version.
 */

Found in path(s):
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/primitives/IntsMethodsForWeb.java

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collect/RangeMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collect/ForwardingImmutableMap.java

jar/com/google/common/collect/JdkBackedImmutableMultiset.java
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jar/com/google/common/collect/ForwardingImmutableMap.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/TreeTraverser.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/RegularImmutableAsList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractNavigableMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/CompactLinkedHashSet.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/AbstractMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/FilteredMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collection/ForwardingBlockingDeque.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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 */

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jar/com/google/common/collection/ImmutableSortedAsList.java
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jar/com/google/common/collection/LinkedHashMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collection/ImmutableSortedAsList.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collection/Multimaps.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collection/Multisets.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collection/ReverseNaturalOrdering.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collection/ClassToInstanceMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/collection/AbstractSetMultimap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jaro/google/common/collect/ForwardingSortedSet.java
*/

jar/com/google/common/collect/ByFunctionOrdering.java
*/

jar/com/google/common/collect/package-info.java
*/

jar/com/google/common/collect/MapDifference.java
*/

jar/com/google/common/collect/CompoundOrdering.java
*/

jar/com/google/common/collect/AbstractMapBasedMultiset.java
*/

jar/com/google/common/collect/ForwardingMapEntry.java
*/

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/annotations/Beta.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/net/package-info.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/util/concurrent/Monitor.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/MutableTypeToInstanceMap.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/Invokable.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/Parameter.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/CharSource.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/package-info.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/TypeToInstanceMap.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/AbstractInvocationHandler.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/reflect/TypeCapture.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/math/PairedStatsAccumulator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/FilteredKeyMultimap.java
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jar/com/google/common/collect/TopKSelector.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/graph/SuccessorsFunction.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/io/RecursiveDeleteOption.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/graph/Network.java
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jar/com/google/common/graph/PredecessorsFunction.java
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jar/com/google/common/graph/Graphs.java
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jar/com/google/common/graph/MutableNetwork.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/io/InsecureRecursiveDeleteException.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/graph/ImmutableGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/graph/MutableGraph.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/graph/ImmutableNetwork.java
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jar/com/google/common/graph/Graph.java

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jar/com/google/common/collect/PeekingIterator.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/Range.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/collect/ImmutableEntry.java
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  jar/com/google/common/util/concurrent/ImmediateFuture.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
  jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java
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  jar/com/google/common/util/concurrent/FuturesGetChecked.java
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  jar/com/google/common/util/concurrent/AggregateFuture.java
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  jar/com/google/common/util/concurrent/TimeLimiter.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/eventbus/SubscriberRegistry.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/eventbus/Dispatcher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/base/MoreObjects.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/eventbus/Subscriber.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources.jar/com/google/common/math/Quantiles.java
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/**
* Holder for web specializations of methods of [@code Shorts]. Intended to be empty for regular
* version.
*/

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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
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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/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/Longs.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/primitives/Shorts.java
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*/
/**
* Not supported. <b>You are attempting to create a map that may contain a non-[@code Comparable]</b>
* key.</b> Proper calls will resolve to the version in [@code ImmutableSortedMap], not this dummy
* 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/collection/ImmutableMapEntry.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/io/MoreFiles.java
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jar/com/google/common/base/CommonMatcher.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-
jar/com/google/common/base/PatternCompiler.java
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* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/graph/StandardMutableNetwork.java
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* /opticola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/LittleEndianDataInputStream.java
* /opt/cola/permits/1102081303_1603450661.12/0/guava-30-0-jre-sources-jar/com/google/common/io/MultiInputStream.java
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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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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

------
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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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

Open Source Used In Crosswork Platform Infrastructure cw-infra-4.1.0-dockerimages-clean 1722
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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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/Validator.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/CascadableDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintTarget.java
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jar/javax/validation/constraints/FutureOrPresent.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Null.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintValidatorContext.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/MessageInterpolator.java
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* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/UnexpectedTypeException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/BeanDescriptor.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/Digits.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/valueextraction/UnwrapByDefault.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraints/NegativeOrZero.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintViolation.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/ConstraintDefinitionException.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/metadata/ValidateUnwrappedValue.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/constraintvalidation/SupportedValidationTarget.java
* /opt/cola/permits/1135880235_1613624044.2/0/jakarta-validation-api-2-0-2-sources-3-jar/javax/validation/groups/package-info.java
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* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
  jar/io/netty/internal/tnative/Library.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
  jar/io/netty/internal/tnative/Buffer.java
* /opt/cola/permits/1150945477_1617726824.38/0/netty-tnative-boringssl-static-2-0-30-final-sources-4-
  jar/io/netty/internal/tnative/SSL.java

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Manifest-Version: 1.0
BoringSSL-Revision: 243b5cc9e33979ae2afa79eaa4e4c8d59db161d4
Bundle-Description: A Mavenized fork of Tomcat Native which incorporates various patches. This artifact is statically linked to BoringSSL
L and Apache APR.
Apr-Version: 1.6.5
Automatic-Module-Name: io.netty.tcnative.boringssl
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.tcnative-boringssl-static
Archiver-Version: Plexus Archiver
Built-By: norman
Bnd-LastModified: 1584602214305
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution=optional,org.eclipse.jetty.npn;version="[1,2)",resolution=optional,org.eclipse.jetty.alpn;version="[1,2)";resolution=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.30.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL - Static]
Bundle-Version: 2.0.30.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=mac osx;;processor=x86_64
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Eclipse

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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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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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1.203 pac4j-config 4.5.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Automatic-Module-Name: pac4j.config
Bnd-LastModified: 1619599125829
Bundle-Description: Profile & Authentication Client for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: pac4j: security configuration by properties
Bundle-SymbolicName: org.pac4j.config
Bundle-Version: 4.5.0
Export-Package: org.pac4j.config.builder;uses:="org.pac4j.config.client, org.pac4j.core.client.org.pac4j.core.credentials.authenticator, org.pac4j.core.credentials.password";version="4.5.0",org.pac4j.config.client;uses:="org.pac4j.config.builder,org.pac4j.core.config";version="4.5.0",org.pac4j.config.ldaptive;uses:="org.ldaptive.org.ldaptive.auth,org.ldaptive.ldaptive.pool,org.ldaptive.sasl";version="4.5.0"
Require-Capability: osgi.ee; filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-5.1.1.202006162103

Found in path(s):
* /opt/cola/permits/1170796424_1635818819.9/0/pac4j-config-4-5-0-jar/META-INF/MANIFEST.MF

1.204 jackson-annotations 2.12.0

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1.205 prometheus-procfs 0.0.4

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1.206 nose 1.3.7

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* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/HttpServerKeepAliveHandler.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/spdy/SpdySession.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/spdy/SpdySession.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/http/HttpContent.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/http/HttpPostBodyUtil.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/http/HttpResponseDecoder.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/http/LastHttpContent.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/http/HttpContentCompressor.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/http/HttpObjectAggregator.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/rtsp/RtspRequestDecoder.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/rtsp/RtspRequestDecoder.java
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-
  jar/io/netty/handler/codecsr/rtsp/RtspRequestDecoder.java

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 */

Found in path(s):
* /opt/cola/permits/1110856971_1606860291.0/0/netty-codec-http-4-1-17-final-sources-1-jar/io/netty/handler/codec/http/cors/CorsConfigBuilder.java

1.212 rcrowley-go-metrics 0.0.0-20190826022208-cac0b30c2563

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1.214 golang-genproto 0.0.0-20180817151627-c66870c02cf8

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1.218 proto-google-common-protos 1.17.0

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* /opt/cola/permits/1199767240_1630583079.56/0/proto-google-common-protos-1-17-0-sources-1-
1.219 netty-resolver 4.1.17.Final

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* /opt/cola/permits/1112470210_1607093040.86/0/netty-resolver-4-1-17-final-sources-
jar/io/netty/resolver/HostsFileEntriesResolver.java
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jar/io/netty/resolver/DefaultAddressResolverGroup.java
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jar/io/netty/resolver/InetAddressResolver.java
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jar/io/netty/resolver/AbstractAddressResolver.java
* /opt/cola/permits/1112470210_1607093040.86/0/netty-resolver-4-1-17-final-sources-
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1.221 zap 1.16.0

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1.222 go-jose 2.5.1

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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)
  if err == nil {  
    SetNoticeHandler(c, n.noticeHandler)
  }
  return c, err
func ConnectorNoticeHandler(c driver.Connector) func(*Error) {
    if c, ok := c.(*NoticeHandlerConnector); ok {
        return c.noticeHandler
    }
    return nil
}

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}
}

1.234 thymeleaf 3.0.11.RELEASE
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1.235 python-dateutil 2.7.3-1.ph3

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1.237 cdiff 1.0

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1.238 byte-buddy 1.10.21

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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

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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-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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1.242 h2 1.4.197

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  jar/io.netty/handler/codec/EmptyHeaders.java
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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/codecs/MarshallerProvider.java
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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java

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* /opt/ws_local/PERMITS_SQL/1072948336_1595240763.12/0/netty-codec-4-1-51-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java

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A decoder that splits the received [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.

* A decoder that splits the received [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.

* The value of the length field in this example is 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.
* 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
* { @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.

* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= 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
* lengthAdjustment. 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.

* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 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. \texttt{lengthAdjustment} is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* \texttt{lengthFieldOffset} = 2 (= the length of Header 1)
* \texttt{lengthFieldLength} = 3
* \texttt{lengthAdjustment} = 0
* \texttt{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 \texttt{lengthAdjustment} so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* \texttt{lengthFieldOffset} = 0
* \texttt{lengthFieldLength} = 3
* \texttt{lengthAdjustment} = 2 (= the length of Header 1)
* \texttt{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
`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 `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
* 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" |
* +-----------------------------+-----------------------------+
```

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.

```
* 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" |
* +-----------------------------+-----------------------------+
```

@see LengthFieldPrepender

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 * Enumeration of supported Base64 dialects.
 * 
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 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * 
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package main

import (
    "bufio"
    "bytes"
    "flag"
    "fmt"
    "io"
    "log"
    "os"
    "path/filepath"
    "strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

-h  prints this message and exits
`

func crUsage(w io.Writer) {
    fmt.Fprintf(w, crUsageString)
}
func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    return
}
defer func() {
  cerr := dst.Close()
  if cerr != nil && err == nil {
    err = cerr
  }
}()
out := bufio.NewWriter(dst)
fmt.Fprint(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
  line++
  txt := scanner.Text()
  if line == 1 && strings.Contains(txt, "Copyright") {
    del = true
    continue
  }
  if del {
    s := strings.TrimSpace(txt)
    if len(s) == 0 {
      del = false
      continue
    }
  }
  fmt.Fprintln(out, txt)
}
if err = scanner.Err(); err != nil {
  return err
}
if err = out.Flush(); err != nil {
  return
}
err = os.Rename(newPath, path)
return
}

func walkCopyrights(path string, info os.FileInfo, err error) error {
  if err != nil {
    return err
  }
  if info.IsDir() {
    return nil
  }
  if !strings.HasSuffix(info.Name(), ".go") {
    return nil
  }
  return addCopyright(path)
func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Println(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
            continue
        }
        if err = filepath.Walk(path, walkCopyrights); err != nil {
            log.Fatalf("%s error %s", path, err)
        }
    }
}

package main

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\`

1.248 go-runtime 1.16
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1.250 jackson 2.11.1
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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/io/netty/channel/unix/package-info.java
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/ws_local/PERMITS_SQL/1094118516_1601083117.93/0/netty-transport-native-unix-common-4-1-52-final-sources-jar/io/netty/channel/unix/IovArray.java

1.254 libunistring 0.9.10-r1

1.254.1 Available under license :

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1.258 commons-attributes-compiler 2.1

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1.260 postgresql-jdbc 42.2.19

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1.265 argparse 0.7.0

1.266 census-instrumentation-opencensus-proto 0.2.0
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1.267 lib-pq 1.0.0

1.267.1 Available under license:

// +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)
    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}
}

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1.268 rardecode 1.1.2
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1.269 lockfile 0.12.2
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package cloud

import (  
"bytes"  
"io/ioutil"
"os"
"path/filepath"
"strings"
"testing"
)

var sentinels = []string{
"Copyright",
"Google",
Licensed under the Apache License, Version 2.0 (the "License");
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // BSD license, which is compatible, is embedded in the file.
            return nil
        }
        src, err := ioutil.ReadFile(path)
        if err != nil {
            return nil
        }
        src = src[:300] // Ensure all of the sentinel values are at the top of the file.

        // Find license
        for _, sentinel := range sentinels {
            if !bytes.Contains(src, []byte(sentinel)) {
                t.Errorf("%v: license header not present. want %q", path, sentinel)
                return nil
            }
        }
    })
}
return nil
}
if err != nil {
    t.Fatal(err)
}

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package cloud

import (
    "bytes"
    "io/ioutil"
    "os"
    "path/filepath"
    "strings"
    "testing"
)

var sentinels = []string{
    "Copyright",
    "Google",
    "Licensed under the Apache License, Version 2.0 (the "License");",
}

func TestLicense(t *testing.T) {
    t.Parallel()
    err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
        if err != nil {
            return err
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {
            return nil
        }
        if strings.HasSuffix(path, ".pb.go") {
            // .pb.go files are generated from the proto files.
            // .proto files must have license headers.
            return nil
        }
        if path == "bigtable/cmd/cbt/cbtdoc.go" {
            // Automatically generated.
            return nil
        }
        if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
            // These files are generated automatically.
            return nil
        }
        return nil
    })
}

// BSD license, which is compatible, is embedded in the file.
return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
    return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
    if !bytes.Contains(src, []byte(sentinel)) {
        t.Errorf("%v: license header not present. want %q", path, sentinel)
        return nil
    }
}

return nil
)
if err != nil {
t.Fatal(err)
}


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* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/cluster/MemberAddResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/internal/impl/Util.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/internal/impl/CloseableClient.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/lease/LeaseTimeToLiveResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthRoleGrantPermissionResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/ClientBuilder.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/options/WatchOption.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/cluster/MemberUpdateResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/maintenance/AlarmType.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/kv/GetResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/cluster/MemberRemoveResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/options/GetOption.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/lease/LeaseKeepAliveResponseWithError.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthUserRevokeRoleResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/Permission.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/Watch.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/cluster/Util.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/lease/NoSuchLeaseException.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/Cluster.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthRoleAddResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/lease/LeaseRevokeResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthDisableResponse.java
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* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/op/Cmp.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/internal/impl/WatchImpl.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthRoleRevokePermissionResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/options/LeaseOption.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/data/ByteSequence.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/data/AbstractResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/maintenance/AlarmMember.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthRoleDeleteResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthUserDeleteResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/internal/impl/ClientConnectionManager.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/lock/UnlockResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/data/Response.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/lease/LeaseKeepAliveResponse.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/cluster/Member.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/options/CompactOption.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthUserChangePasswordResponse.java
jar/com/coreos/jetcd/options/DeleteOption.java
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/auth/AuthEnableResponse.java

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/**
 * defragment one member of the cluster.
 *
 * After compacting the keyspace, the backend database may exhibit internal  
 * fragmentation. Any internal fragmentation is space that is free to use  
 * by the backend but still consumes storage space. The process of  
 * defragmentation releases this storage space back to the file system.  
 * Defragmentation is issued on a per-member so that cluster-wide latency  
 * spikes may be avoided.
 *
 * Defragment is an expensive operation. User should avoid defragmenting  
 * multiple members at the same time.
 * To defragment multiple members in the cluster, user need to call defragment  
 * multiple times with different endpoints.
 */

Found in path(s):
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-jar/com/coreos/jetcd/internal/impl/MaintenanceImpl.java

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 * /
/**
 * defragment one member of the cluster by its endpoint.
 * 
 * <p>After compacting the keyspace, the backend database may exhibit internal
 * fragmentation. Any internal fragmentation is space that is free to use
* by the backend but still consumes storage space. The process of
* defragmentation releases this storage space back to the file system.
* Defragmentation is issued on a per-member so that cluster-wide latency
* spikes may be avoided.
*
* `<p>` Defragment is an expensive operation. User should avoid defragmenting
* multiple members at the same time.
* To defragment multiple members in the cluster, user need to call defragment
* multiple times with different endpoints.
*/

Found in path(s):
* /opt/cola/permits/1130189399_1612483947.42/0/jetcd-core-0-0-2-sources-2-
jar/com/coreos/jetcd/Maintenance.java

---

1.281 lib-pq 13.4-r0

1.281.1 Available under license:

```go
//go:build go1.10
//+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
```
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 &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
}

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1.282 lz4-java 1.7.1

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1.283 kafka-streams-test-utils 2.7.0

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1.286 jackson-xc 2.10.5
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1.291 brotli 1.0.9-r5

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* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2.1.4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift-Bridging-Header.h
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2.1.4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example_SwiftTests.swift
* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2.1.4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example-Swift/Example-Swift/ViewController.swift

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Pod::Spec.new do |s|
  s.name         = "DCPathButton"
  s.version      = "2.1.1"
  s.summary      = "A beautiful button copy from Path®"
  
  s.description  = "DCPathButton is a menu button, design by an famous App Path®. Since Path® 4.0, it return to use a tab bar instead of a side bar, and also change the menu button. So I try to implement it and then the DCPathButton born :)"
  DESC
  
  s.homepage     = "https://github.com/Tangdixi/DCPathButton"
  
  s.license      = {
    :type => 'MIT',
    :text => 'The DCPathButton use the MIT license'
s.author = { "Tangdixi" => "Tangdixi@gmail.com" }
s.platform = :ios, '7.0'
s.source = {
  :git => "https://github.com/Tangdixi/DCPathButton.git",
  :tag => "2.1.1"
}
s.source_files = 'DCPathButton/Classes/*.{h,m}'
s.resources = ['DCPathButton/Sounds/*']
s.frameworks = 'QuartzCore','AudioToolbox'
s.requires_arc = true
end

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* /opt/cola/permits/1125786974_1612762024.23/0/tangdixi-dcpathbutton-2-1-4-0-gdd7873d-tar-gz/Tangdixi-DCPathButton-ecfc086/Example/Pods/DCPathButton/README.md
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  jar/com/google/gson/internal/LinkedTreeMap.java
 * /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-
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jar/com/google/gson/TypeAdapterFactory.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonPrimitive.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/ExclusionStrategy.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/$Gson$Preconditions.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Excluder.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonArray.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonObject.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/annotations/JsonAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/JsonAdapterAnnotationTypeAdapterFactory.java

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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/bind/TreeTypeAdapter.java
* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/UnsafeAllocator.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/internal/Streams.java
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* /opt/cola/permits/1108597571_1606176527.27/0/gson-2-8-6-sources-1-jar/com/google/gson/JsonStreamParser.java
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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
- jsp_2_2.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
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r/R/dplyr-count-tally.R (some portions)

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1.316 rcrowley-go-metrics 0.0.0-20200313005456-10cdbea86bc0

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1.317 jackson-dataformat-xml 2.12.0

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```
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* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/internal/service/ClusterStateRepository.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/internal/service/ClusterTierDestructionException.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-
jar/org/ehcache/clustered/client/internal/ClusterTierManagerClientEntityService.java
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* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/store/ClusteredStore.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/store/ReconnectingServerStoreProxy.java
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* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/ClusteringServiceFactory.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/EntityBusyException.java
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* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/internal/store/lock/LockingServerStoreProxyImpl.java
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* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/ClusterTierManagerClientEntity.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/DefaultClusteringService.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/DelegatingLoaderWriterStoreProviderFactory.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/DelegatingLoaderWriterStoreProviderFactory.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/ClientEntityFactory.java
* /opt/cola/permits/1170796206_1622715558.6/0/ehcache-client-3-8-1-sources-jar/org/ehcache/clustered/client/service/DefaultClusteringService.java
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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/bytecode/stackmap/MapMaker.java
* /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/tools/reflect/ClassMetaobject.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/util/proxy/ProxyFactory.java
* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/ClassFile.java
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- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/bytecode/DuplicateMemberException.java
- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/compiler/ast/Pair.java
- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/compiler/TokenId.java
- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/compiler/ast/ArrayInit.java
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- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/tools/rmi/ObjectNotFoundException.java
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- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/tools/rmi/RemoteRef.java
- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/bytecode/ConstPool.java
- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/scopedpool/ScopedClassPoolFactoryImpl.java
- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/tools/Callback.java
- /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4.jar/javassist/compiler/CompileError.java
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/opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/bytecode/LineNumberAttribute.java

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* /opt/cola/permits/1135840536_1613612905.33/0/javassist-3-26-0-ga-sources-4-jar/javassist/convert/Transformer.java
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  jar/javassist/bytecode/annotation/DoubleMemberValue.java
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  jar/javassist/bytecode/annotation/StringMemberValue.java
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* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/xs/traversers/XSDHandler.java
* /opt/cola/permits/1217727294_1635408911.57/0/xercesimpl-2-12-0-sources-jar/org/apache/xerces/impl/dv/xs/AbstractDateTimeDV.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
 */

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 */
/**
 * DOM Level 3 LS CR - Experimental.
 * Create a new <code>LSParser</code>. The newly constructed parser may
then be configured by means of its <code>DOMConfiguration</code> object, and used to parse documents by means of its <code>parse</code> method.

* @param mode  The <code>mode</code> argument is either
* <code>MODE_SYNCHRONOUS</code> or <code>MODE_ASYNCHRONOUS</code>, if
* <code>mode</code> is <code>MODE_SYNCHRONOUS</code> then the
* <code>LSParser</code> that is created will operate in synchronous
* mode, if it's <code>MODE_ASYNCHRONOUS</code> then the
* <code>LSParser</code> that is created will operate in asynchronous
* mode.

* @param schemaType  An absolute URI representing the type of the schema
* language used during the load of a <code>Document</code> using the
* newly created <code>LSParser</code>. Note that no lexical checking
* is done on the absolute URI. In order to create a
* <code>LSParser</code> for any kind of schema types (i.e. the
* LSParser will be free to use any schema found), use the value
* <code>null</code>.

* , 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/XMLSchema 1.0</a>],
* applications must use the value
* <code>"http://www.w3.org/TR/TR-REC-xmldom-20001006/XMLSchema 1.0"]
* 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.
* 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.
*/
1.341 netty-transport 4.1.50.Final

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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/pool/AbstractChannelPoolHandler.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/ChannelId.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/ChannelOutboundBuffer.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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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}`.

Sub-types:

- `{@link ChannelInboundHandler}` to handle inbound I/O events,
- `{@link ChannelOutboundHandler}` to handle outbound I/O operations.

Alternatively, the following adapter classes are provided for your convenience:

- `{@link ChannelInboundHandlerAdapter}` to handle inbound I/O events,
- `{@link ChannelOutboundHandlerAdapter}` to handle outbound I/O operations,
- `{@link ChannelDuplexHandler}` to handle both inbound and outbound events.

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}`) which is specific to the handler.

State management:

A `{@link ChannelHandler}` often needs to store some stateful information.

The simplest and recommended approach is to use member variables:
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {

    private boolean loggedIn;

    @Override
    public void channelRead0(ChannelHandlerContext ctx, Message message) {
        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 a unauthenticated client can get the confidential information:

// Create a new handler instance per channel.
// See ChannelInitializer#initChannel(Channel).
public class DataServerInitializer extends ChannelInitializer<Channel> {

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

Using AttributeKey's

Although it's recommended to use member variables to store the state of a handler, for some reason you might not want to create many handler instances.
In such a case, you can use AttributeKey's which is provided by ChannelHandlerContext:

public interface Message {
* // your methods here
* }
*
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {  
* private final {@link AttributeKey}&lt;{@link Boolean}&gt; 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);  
*     &lt;b&gt;attr.set(true)&lt;/b&gt;;  
*   } else (message instanceof GetDataMessage) {  
*     if (&lt;b&gt;Boolean.TRUE.equals(attr.get())&lt;/b&gt;) {  
*       ctx.writeAndFlush(fetchSecret((GetDataMessage) o));  
*     } else {  
*       fail();  
*     }  
*   }  
*   ...  
* }
* }{@pre>
* Now that the state of the handler is attached to the { @link ChannelHandlerContext}, you can add the  
* same handler instance to different pipelines:  
* <*>  
* public class DataServerInitializer extends { @link ChannelInitializer}&lt;{@link Channel}&gt; {  
*  
*   private static final DataServerHandler &lt;b&gt;SHARED&lt;/b&gt; = new DataServerHandler();  
*  
*  
* }{@code @Override}
* public void initChannel({@link Channel} channel) {  
*   channel.pipeline().addLast("handler", &lt;b&gt;SHARED&lt;/b&gt;);  
* }
* }{@pre>
* *
* *
* &lt;h4&gt;The { @code @Sharable} annotation&lt;/h4&gt;
* &lt;p&gt;  
* In the example above which used an { @link AttributeKey},  
* you might have noticed the { @code @Sharable} annotation.  
* &lt;p&gt;  
* If a { @link ChannelHandler} is annotated with the { @code @Sharable}  
* annotation, it means you can create an instance of the handler just once and  
* add it to one or more { @link ChannelPipeline}s multiple times without
* a race condition.
* 
* If this annotation is not specified, you have to create a new handler
* instance every time you add it to a pipeline because it has unshared state
* such as member variables.
* 
* This annotation is provided for documentation purpose, just like
* [a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
* 
* Additional resources worth reading
* 
* 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/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/channel/internal/package-info.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
  jar/io/netty/bootstrap/FailedChannel.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
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*/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/PendingBytesTracker.java
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*/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java

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*/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/socket/oio/OioSocketChannel.java
*/opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
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* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-jar/io/netty/channel/PendingWriteQueue.java

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  jar/io/netty/channel/EventLoopTaskQueueFactory.java
* /opt/ws_local/PERMITS_SQL/1068233910_1594324277.63/0/netty-transport-4-1-50-final-sources-1-
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1.342 bouncycastle-fips 1.0.2
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1.344 gopkg.in-yaml 2.4.0

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* /opt/cola/permits/1220001994_1635293091.01/0/groovy-groovysh-3-0-7-sources-1-
  jar/org/codehaus/groovy/tools/shell/ComplexCommandSupport.groovy
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  jar/org/codehaus/groovy/tools/shell/completion/BackslashEscapeCompleter.groovy
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  jar/org/apache/groovy/groovysh/Command.groovy
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* /opt/cola/permits/1220001994_1635293091.01/0/groovy-groovysh-3-0-7-sources-1-
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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/internal/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/Messages.java

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* /opt/cola/permits/1177945013_1625575335.76/0/jopt-simple-5-0-4-sources-8-jar/joptsimple/util/EnumConverter.java

1.357 jakarta-persistence-api 2.2.3

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1.359 pac4j-cas 4.5.0

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 11
Automatic-Module-Name: pac4j.cas
Bnd-LastModified: 1619598534353
Bundle-Description: Profile & Authentication Client for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: pac4j: Java web security via CAS protocol
Bundle-SymbolicName: org.pac4j.cas
Bundle-Version: 4.5.0
Export-Package: org.pac4j.cas.authorization;uses:="org.pac4j.core.authorization.generator,org.pac4j.core.context,org.pac4j.core.profile";version="4.5.0",org.pac4j.cas.client;uses:="org.pac4j.core.config,org.pac4j.core.http.callback,org.pac4j.core.client,org.pac4j.core.credentials,org.pac4j.core.http.callback,org.pac4j.core.client";version="4.5.0",org.pac4j.cas.client.direct;uses:="org.pac4j.core.config,org.pac4j.core.client";version="4.5.0"
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1.362 soheilhy-cmux 0.1.4

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1.367 groupcache 0.0.0-20210331224755-41bb18bfe9da

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1.368 franela-goreq 0.0.0-20171204163338-bcd34c9993f8

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1.369 jsr305 3.0.2

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1.370 go-colorable 0.1.8

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1.372 x-sync 0.0.0-20201020160332-67f06af15bc9

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1.373 gorilla 1.7.3

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1.374 x-net 0.0.0-20210805182204-aaa1db679c0d

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1.375 pac4j-jwt 4.5.0

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1.379 clockwork 0.2.2

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Clockwork - a clock 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 cron replacement. It runs as 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.

Quickstart
----------
Create clock.rb:

```ruby
require 'clockwork'
include Clockwork

handler do [job]
  puts "Running #{job}" end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')

every(1.day, 'midnight.job', :at => '00:00')
```

Run it with the clockwork binary:

```
$ clockwork clock.rb
```

Use with queueing
-----------------
The clock process 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 clock process with no locks, but also offers near infinite horizontal scalability.

For example, if you're using Beanstalk/Staker:
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')

Using a queueing system which doesn't require that your full application be loaded is preferable, because the clock process can keep a tiny memory footprint. If you're using DJ or Resque, however, you can go ahead and load your full application environment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

require 'config/boot'
require 'config/environment'

every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }

Anatomy of a clock file
-----------------------

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

    handler { |job| enqueue_your_job(job) }

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

    every(5.minutes, 'thing.do')
every(1.hour, 'otherthing.do')

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call enqueue_your_job('thing.do').

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:
every(5.minutes, 'thing.do') { Thing.send_later(:do) }

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

```ruby
every(1.day, 'check.leap.year') do
  Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
end
```

In production
-------------

Only one clock 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:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock 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)

Design assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

Found in path(s):
* /opt/cola/permits/1215783807_1634571130.71/0/clockwork-0-2-2-2-gem/data-tar-gz/README.md
1.380 blackfriday 2.0.1
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of these things:

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

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

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

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

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
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1.394 prometheus-procfs 0.0.2

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promfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Julian Seward, jseward@acm.org
bzip2/libbzip2 version 1.0.8 of 13 July 2019

1.404 ini 1.57.0

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1.410 apache-thrift 0.0.0-20171029141510-619218cd7f3e

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`compiler/cpp/src/generate/t_st_generator.cc`
`compiler/cpp/src/generate/t_xsd_generator.cc`
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L. Peter Deutsch
ghost@aladdin.com

*/

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1.412 jackson-databind 2.12.0

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1.413 alpine-keys 2.3-r1

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1.414 gojsonpointer 0.0.0-20190905194746-02993c407bfb

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1.415 go-mssql/db 0.0.0-20200910202707-1e08a3fab204

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1.416 mergo 0.3.11

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  author: root

1.417 mango 0.0.0-20181015135952-eefdecb41b8

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mgo - MongoDB driver for Go

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1.418 netty-transport-native-epoll 4.1.52.Final

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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/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollEventLoop.java
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* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
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* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/io/netty/channel/epoll/package-info.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="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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  jar/io/netty/channel/epoll/EpollMode.java
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* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
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* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-
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* /opt/ws_local/PERMITS_SQL/1094118523_1601083104.44/0/netty-transport-native-epoll-4-1-52-final-sources-jar/netty_epoll_native.c
1.419 google-uuid 1.1.5

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1.423 gofrs-uuid 3.2.0+incompatible

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1.424 x-mod 0.3.0

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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/AdvancedLeakAwareCompositeByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PooledSlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/UnpooledUnsafeNoCleanerDirectByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-jar/io/netty/buffer/PooledDuplicatedByteBuf.java
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
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* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
jar/io/netty/buffer/PoolSubpageMetric.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
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jar/io/netty/buffer/UnsafeByteBufUtil.java
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  jar/io/netty/buffer/ReadOnlyByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/PoolChunk.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/SlicedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1068233880_1594324310.84/0/netty-buffer-4-1-50-final-sources-1-
  jar/io/netty/buffer/PoolChunkList.java
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jar/org/apache/zookeeper/util/CircularBlockingQueue.java
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* /opt/ cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/util/OSMXBean.java
* /opt/ cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/common/ZKTrustManager.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/admin/DummyAdminServer.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/TxnLogProposalIterator.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/audit/AuditLogger.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/common/JKSFileLoader.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/admin/AdminServerFactory.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/admin/CommandOutputter.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/SaslClientCallbackHandler.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/LocalPeerBean.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/util/BitHashSet.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/LearnerMaster.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/persistence/FileTxnLog.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/persistence/TxnLogToolkit.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/quorum/CommitProcessor.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/client/GetConfigCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/server/watch/WatchManager.java

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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/SyncCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/GetAclCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/LsCommand.java
* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/cli/VersionCommand.java

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* /opt/cola/permits/1102648010_1603824244.11/0/zookeeper-3-6-2-sources-jar/org/apache/zookeeper/common/PathTrie.java

1.433 kelseyhightower-envconfig 1.4.0

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1.434 lib-pq 1.10.3

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```go
// go:build go1.10
// +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.
//
// 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
}
```
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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package linkface

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//
//Code generated by Alibaba Cloud SDK Code Generator.
//Changes may cause incorrect behavior and will be lost if the code is regenerated.

// DataInQueryLicenses is a nested struct in linkface response
type DataInQueryLicenses struct {
    DataItem []DataItem `json:"DataItem" xml:"DataItem"
}

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package ocr

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeDriverLicense invokes the ocr.RecognizeDriverLicense API synchronously
func (client *Client) RecognizeDriverLicense(request *RecognizeDriverLicenseRequest) (response *RecognizeDriverLicenseResponse, err error) {
    response = CreateRecognizeDriverLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// RecognizeDriverLicenseWithChan invokes the ocr.RecognizeDriverLicense API asynchronously
func (client *Client) RecognizeDriverLicenseWithChan(request *RecognizeDriverLicenseRequest) (<-chan *RecognizeDriverLicenseResponse, <-chan error) {
    responseChan := make(chan *RecognizeDriverLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.RecognizeDriverLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        return
    }
    return responseChan, errChan
}
errChan <- err
close(responseChan)
close(errChan)
}
return responseChan, errChan
}

// RecognizeDriverLicenseWithCallback invokes the ocr.RecognizeDriverLicense API asynchronously
func (client *Client) RecognizeDriverLicenseWithCallback(request *RecognizeDriverLicenseRequest, callback func(response *RecognizeDriverLicenseResponse, err error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
var response *RecognizeDriverLicenseResponse
var err error
defer close(result)
response, err = client.RecognizeDriverLicense(request)
if err != nil {
    defer close(result)
callback(nil, err)
    result <- 0
}
return result
})
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return

// RecognizeDriverLicenseRequest is the request struct for api RecognizeDriverLicense
type RecognizeDriverLicenseRequest struct {
    *requests.RpcRequest
    ImageType requests.Integer `position:"Body" name:"ImageType"
    Side    string     `position:"Body" name:"Side"
    ImageURL string     `position:"Body" name:"ImageURL"
}

// RecognizeDriverLicenseResponse is the response struct for api RecognizeDriverLicense
type RecognizeDriverLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    Code      string `json:"Code" xml:"Code"
    Message   string `json:"Message" xml:"Message"
    Data      Data `json:"Data" xml:"Data"
}

// CreateRecognizeDriverLicenseRequest creates a request to invoke RecognizeDriverLicense API
func CreateRecognizeDriverLicenseRequest() (request *RecognizeDriverLicenseRequest) {
request = &RecognizeDriverLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
}
request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeDriverLicense", "ocr", "openAPI")
request.Method = requests.POST
return

// CreateRecognizeDriverLicenseResponse creates a response to parse from RecognizeDriverLicense response
func CreateRecognizeDriverLicenseResponse() (response *RecognizeDriverLicenseResponse) {
    response = &RecognizeDriverLicenseResponse{
        BaseResponse: &responses.BaseResponse{
        }
    }
    return
}

package mts

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetLicense invokes the mts.GetLicense API synchronously
func (client *Client) GetLicense(request *GetLicenseRequest) (response *GetLicenseResponse, err error) {
    response = CreateGetLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// GetLicenseWithChan invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithChan(request *GetLicenseRequest) (<-chan *GetLicenseResponse, <-chan error) {
    responseChan := make(chan *GetLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        response := client.GetLicense(request)
        if response != nil {
            responseChan <- response
        } else {
            errChan <- error
        }
    })
    return responseChan, errChan
}
defer close(responseChan)
defer close(errChan)
response, err := client.GetLicense(request)
if err != nil {
    errChan <- err
} else {
    responseChan <- response
}
}
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan

// GetLicenseWithCallback invokes the mts.GetLicense API asynchronously
func (client *Client) GetLicenseWithCallback(request *GetLicenseRequest, callback func(response *GetLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetLicenseRequest is the request struct for api GetLicense
type GetLicenseRequest struct {
    *requests.RpcRequest
    ResourceOwnerId string `position:"Query" name:"ResourceOwnerId"`
    Data string `position:"Query" name:"Data"`
    Type string `position:"Query" name:"Type"`
    ResourceOwnerAccount string `position:"Query" name:"ResourceOwnerAccount"`
    OwnerAccount string `position:"Query" name:"OwnerAccount"`
    OwnerId string `position:"Query" name:"OwnerId"`
    MediaId string `position:"Query" name:"MediaId"`
    Header string `position:"Query" name:"Header"`
LicenseUrl string `position:"Query" name:"LicenseUrl"

// GetLicenseResponse is the response struct for api GetLicense
type GetLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    License string `json:"License" xml:"License"
}

// CreateGetLicenseRequest creates a request to invoke GetLicense API
func CreateGetLicenseRequest() (request *GetLicenseRequest) {
    request = &GetLicenseRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("Mts", "2014-06-18", "GetLicense", "mts", "openAPI")
    request.Method = requests.POST
    return
}

// CreateGetLicenseResponse creates a response to parse from GetLicense response
func CreateGetLicenseResponse() (response *GetLicenseResponse) {
    response = &GetLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

package market

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// ActivateLicense invokes the market.ActivateLicense API synchronously
func (client *Client) ActivateLicense(request *ActivateLicenseRequest) (response *ActivateLicenseResponse, err error) {
    response = CreateActivateLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// ActivateLicenseWithChan invokes the market.ActivateLicense API asynchronously
func (client *Client) ActivateLicenseWithChan(request *ActivateLicenseRequest) (<-chan *ActivateLicenseResponse, <-chan error) {
    responseChan := make(chan *ActivateLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.ActivateLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// ActivateLicenseWithCallback invokes the market.ActivateLicense API asynchronously
func (client *Client) ActivateLicenseWithCallback(request *ActivateLicenseRequest, callback func(response *ActivateLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *ActivateLicenseResponse
        var err error
        defer close(result)
        response, err = client.ActivateLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        close(result)
    }
    return result
}
if err != nil {
    defer close(result)
    callback(nil, err)
    result <- 0
}
return result

// ActivateLicenseRequest is the request struct for api ActivateLicense
type ActivateLicenseRequest struct {
    *requests.RpcRequest
    Identification string `position:"Query" name:"Identification``
    LicenseCode string `position:"Query" name:"LicenseCode``
}

// ActivateLicenseResponse is the response struct for api ActivateLicense
type ActivateLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId``
    Success bool `json:"Success" xml:"Success``
}

// CreateActivateLicenseRequest creates a request to invoke ActivateLicense API
func CreateActivateLicenseRequest() (request *ActivateLicenseRequest) {
    request = &ActivateLicenseRequest{
        RpcRequest: &requests.RpcRequest{},
    }
    request.InitWithApiInfo("Market", "2015-11-01", "ActivateLicense", "yunmarket", "openAPI")
    return
}

// CreateActivateLicenseResponse creates a response to parse from ActivateLicense response
func CreateActivateLicenseResponse() (response *ActivateLicenseResponse) {
    response = &ActivateLicenseResponse{
        BaseResponse: &responses.BaseResponse{},
    }
    return
}

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeLicensePlate invokes the ocr.RecognizeLicensePlate API synchronously
func (client *Client) RecognizeLicensePlate(request *RecognizeLicensePlateRequest) (response *RecognizeLicensePlateResponse, err error) {
    response = CreateRecognizeLicensePlateResponse()
    err = client.DoAction(request, response)
    return
}

// RecognizeLicensePlateWithChan invokes the ocr.RecognizeLicensePlate API asynchronously
func (client *Client) RecognizeLicensePlateWithChan(request *RecognizeLicensePlateRequest) (<-chan *RecognizeLicensePlateResponse, <-chan error) {
    responseChan := make(chan *RecognizeLicensePlateResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.RecognizeLicensePlate(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
    }
    return responseChan, errChan
}

// RecognizeLicensePlateWithCallback invokes the ocr.RecognizeLicensePlate API asynchronously
func (client *Client) RecognizeLicensePlateWithCallback(request *RecognizeLicensePlateRequest, callback func(response *RecognizeLicensePlateResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *RecognizeLicensePlateResponse
        var err error
        defer close(result)
response, err = client.RecognizeLicensePlate(request)
callback(response, err)
result <- 1
}
if err != nil {
defer close(result)
callback(nil, err)
result <- 0
}
return result

// RecognizeLicensePlateRequest is the request struct for api RecognizeLicensePlate
type RecognizeLicensePlateRequest struct {
*requests.RpcRequest
ImageType requests.Integer `position:"Body" name:"ImageType"
ImageURL string `position:"Body" name:"ImageURL"
}

// RecognizeLicensePlateResponse is the response struct for api RecognizeLicensePlate
type RecognizeLicensePlateResponse struct {
*responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"
Code string `json:"Code" xml:"Code"
Message string `json:"Message" xml:"Message"
Data Data `json:"Data" xml:"Data"
}

// CreateRecognizeLicensePlateRequest creates a request to invoke RecognizeLicensePlate API
defunc CreateRecognizeLicensePlateRequest() (request *RecognizeLicensePlateRequest) {
request = &RecognizeLicensePlateRequest{
RpcRequest: &requests.RpcRequest{},
}
request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeLicensePlate", "ocr", "openAPI")
request.Method = requests.POST
return
}

// CreateRecognizeLicensePlateResponse creates a response to parse from RecognizeLicensePlate response
defunc CreateRecognizeLicensePlateResponse() (response *RecognizeLicensePlateResponse) {
response = &RecognizeLicensePlateResponse{
BaseResponse: &responses.BaseResponse{},
}
return
}

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// PositionsInRecognizeLicensePlate is a nested struct in ocr response
type PositionsInRecognizeLicensePlate struct {
    Positions []Positions `json:"positions" xml:"positions"
}

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// RecognizeBusinessLicense invokes the ocr.RecognizeBusinessLicense API synchronously
func (client *Client) RecognizeBusinessLicense(request *RecognizeBusinessLicenseRequest) (response *RecognizeBusinessLicenseResponse, err error) {
    response = CreateRecognizeBusinessLicenseResponse()
    err = client.DoAction(request, response)
    return
}

// RecognizeBusinessLicenseWithChan invokes the ocr.RecognizeBusinessLicense API asynchronously
func (client *Client) RecognizeBusinessLicenseWithChan(request *RecognizeBusinessLicenseRequest) (<-chan *RecognizeBusinessLicenseResponse, <-chan error) {
    responseChan := make(chan *RecognizeBusinessLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.RecognizeBusinessLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// RecognizeBusinessLicenseWithCallback invokes the ocr.RecognizeBusinessLicense API asynchronously
func (client *Client) RecognizeBusinessLicenseWithCallback(request *RecognizeBusinessLicenseRequest, callback func(response *RecognizeBusinessLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
err := client.AddAsyncTask(func() {
    var response *RecognizeBusinessLicenseResponse
    var err error
    defer close(result)
    response, err = client.RecognizeBusinessLicense(request)
    callback(response, err)
    result = 1
})
    if err != nil {
        defer close(result)
        callback(nil, nil)
        result = 0
    }
    return result
}

// RecognizeBusinessLicenseRequest is the request struct for api RecognizeBusinessLicense
type RecognizeBusinessLicenseRequest struct {
    *requests.RpcRequest
    ImageType requests.Integer `position:"Body" name:"ImageType"
    ImageURL string `position:"Body" name:"ImageURL"
}

// RecognizeBusinessLicenseResponse is the response struct for api RecognizeBusinessLicense
type RecognizeBusinessLicenseResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    Data Data `json:"Data" xml:"Data"
}

// CreateRecognizeBusinessLicenseRequest creates a request to invoke RecognizeBusinessLicense API
func CreateRecognizeBusinessLicenseRequest() (request *RecognizeBusinessLicenseRequest) {
    request = &RecognizeBusinessLicenseRequest{
        RpcRequest: &requests.RpcRequest{
    }
            request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeBusinessLicense", "ocr", "openAPI")
        request.Method = requests.POST

    return
}

// CreateRecognizeBusinessLicenseResponse creates a response to parse from RecognizeBusinessLicense response
func CreateRecognizeBusinessLicenseResponse() (response *RecognizeBusinessLicenseResponse) {
    response = &RecognizeBusinessLicenseResponse{
        BaseResponse: &responses.BaseResponse{
    }
    return
}
package linkface

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import (
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// QueryLicenses invokes the linkface.QueryLicenses API synchronously
func (client *Client) QueryLicenses(request *QueryLicensesRequest) (response *QueryLicensesResponse, err error) {
    response = CreateQueryLicensesResponse()
    err = client.DoAction(request, response)
    return
}

// QueryLicensesWithChan invokes the linkface.QueryLicenses API asynchronously
func (client *Client) QueryLicensesWithChan(request *QueryLicensesRequest) (<-chan *QueryLicensesResponse, <-chan error) {
    responseChan := make(chan *QueryLicensesResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.QueryLicenses(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    return responseChan, errChan
}
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan

// QueryLicensesWithCallback invokes the linkface.QueryLicenses API asynchronously
func (client *Client) QueryLicensesWithCallback(request *QueryLicensesRequest, callback func(*QueryLicensesResponse, error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *QueryLicensesResponse
        var err error
        defer close(result)
        response, err = client.QueryLicenses(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// QueryLicensesRequest is the request struct for api QueryLicenses
type QueryLicensesRequest struct {
    *requests.RpcRequest
    LicenseType requests.Integer `position:"Body" name:"LicenseType"
    PageSize    requests.Integer `position:"Body" name:"PageSize"
    CurrentPage requests.Integer `position:"Body" name:"CurrentPage"
}

// QueryLicensesResponse is the response struct for api QueryLicenses
type QueryLicensesResponse struct {
    *responses.BaseResponse
    RequestId string `json:"RequestId" xml:"RequestId"
    Code int `json:"Code" xml:"Code"
    Message string `json:"Message" xml:"Message"
    PageCount int `json:"PageCount" xml:"PageCount"
    PageSize int `json:"PageSize" xml:"PageSize"
    Page int `json:"Page" xml:"Page"
    Total int `json:"Total" xml:"Total"
Success  bool  `json:"Success" xml:"Success"
Data      []DataItem `json:"Data" xml:"Data"
}

// CreateQueryLicensesRequest creates a request to invoke QueryLicenses API
func CreateQueryLicensesRequest() (request *QueryLicensesRequest) {
    request = &QueryLicensesRequest{
        RpcRequest: &requests.RpcRequest{
        }
    }
    request.InitWithApiInfo("LinkFace", "2018-07-20", "QueryLicenses", ",", ")
    return
}

// CreateQueryLicensesResponse creates a response to parse from QueryLicenses response
func CreateQueryLicensesResponse() (response *QueryLicensesResponse) {
    response = &QueryLicensesResponse{
        BaseResponse: &responses.BaseResponse{
        }
    }
    return
}

package imm

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import (
    "github.com/aliyun/aliyun-alibabacloud-sdk-go/sdk/requests"
    "github.com/aliyun/aliyun-alibabacloud-sdk-go/sdk/responses"
)

// GetDRMLicense invokes the imm.GetDRMLicense API synchronously
func (client *Client) GetDRMLicense(request *GetDRMLicenseRequest) (response *GetDRMLicenseResponse, err error) {
    response = CreateGetDRMLicenseResponse()
    err = client.DoAction(request, response)
    return
// GetDRMLicenseWithChan invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithChan(request *GetDRMLicenseRequest) (<-chan *GetDRMLicenseResponse, <-chan error) {
    responseChan := make(chan *GetDRMLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.GetDRMLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// GetDRMLicenseWithCallback invokes the imm.GetDRMLicense API asynchronously
func (client *Client) GetDRMLicenseWithCallback(request *GetDRMLicenseRequest, callback func(response *GetDRMLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetDRMLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetDRMLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetDRMLicenseRequest is the request struct for api GetDRMLicense
type GetDRMLicenseRequest struct {
    *requests.RpcRequest
}
Project  string `position:"Query" name:"Project"`
DRMTypestring `position:"Query" name:"DRMTyp"`
DRMLicense string `position:"Query" name:"DRMLicense"`

// GetDRMLicenseResponse is the response struct for api GetDRMLicense
type GetDRMLicenseResponse struct {
  *responses.BaseResponse
  RequestId  string `json:"RequestId" xml:"RequestId"`
  DeviceInfo string `json:"DeviceInfo" xml:"DeviceInfo"`
  DRMData    string `json:"DRMData" xml:"DRMData"`
}

// CreateGetDRMLicenseRequest creates a request to invoke GetDRMLicense API
func CreateGetDRMLicenseRequest() (request *GetDRMLicenseRequest) {
  request = &GetDRMLicenseRequest{
    RpcRequest: &requests.RpcRequest{
      Method: requests.POST,
    },
  }
  request.InitWithApiInfo("imm", "2017-09-06", "GetDRMLicense", "imm", "openAPI")
  return
}

// CreateGetDRMLicenseResponse creates a response to parse from GetDRMLicense response
func CreateGetDRMLicenseResponse() (response *GetDRMLicenseResponse) {
  response = &GetDRMLicenseResponse{
    BaseResponse: *responses.BaseResponse{},
  }
  return
}

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import (  
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// DescribeLicense invokes the market.DescribeLicense API synchronously  
func (client *Client) DescribeLicense(request *DescribeLicenseRequest) (response *DescribeLicenseResponse, err error) {

...
response = CreateDescribeLicenseResponse()
err = client.DoAction(request, response)
return
}

// DescribeLicenseWithChan invokes the market.DescribeLicense API asynchronously
func (client *Client) DescribeLicenseWithChan(request *DescribeLicenseRequest) (<-chan *DescribeLicenseResponse, <-chan error) {
responseChan := make(chan *DescribeLicenseResponse, 1)
errChan := make(chan error, 1)
err := client.AddAsyncTask(func() {
    defer close(responseChan)
    defer close(errChan)
    response, err := client.DescribeLicense(request)
    if err != nil {
        errChan <- err
    } else {
        responseChan <- response
    }
})
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan
}

// DescribeLicenseWithCallback invokes the market.DescribeLicense API asynchronously
func (client *Client) DescribeLicenseWithCallback(request *DescribeLicenseRequest, callback func(response *DescribeLicenseResponse, err error)) <-chan int {
result := make(chan int, 1)
err := client.AddAsyncTask(func() {
    var response *DescribeLicenseResponse
    var err error
    defer close(result)
    response, err = client.DescribeLicense(request)
    callback(response, err)
    result <- 1
})
if err != nil {
    defer close(result)
    callback(nil, err)
    result <- 0
}
// DescribeLicenseRequest is the request struct for api DescribeLicense
type DescribeLicenseRequest struct {
  *requests.RpcRequest
  LicenseCode string `position:"Query" name:"LicenseCode"
}

// DescribeLicenseResponse is the response struct for api DescribeLicense
type DescribeLicenseResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"
  License License `json:"License" xml:"License"
}

// CreateDescribeLicenseRequest creates a request to invoke DescribeLicense API
func CreateDescribeLicenseRequest() (request *DescribeLicenseRequest) {
  request = &DescribeLicenseRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("Market", "2015-11-01", "DescribeLicense", "yunmarket", "openAPI")
  return
}

// CreateDescribeLicenseResponse creates a response to parse from DescribeLicense response
func CreateDescribeLicenseResponse() (response *DescribeLicenseResponse) {
  response = &DescribeLicenseResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}

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//
//Code generated by Alibaba Cloud SDK Code Generator.
//Changes may cause incorrect behavior and will be lost if the code is regenerated.

// LicenseAttribute is a nested struct in market response
type LicenseAttribute struct {
    Code  string `json:"Code" xml:"Code"`
    Value string `json:"Value" xml:"Value"`
}

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import (  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/requests"  "github.com/aliyun/alibaba-cloud-sdk-go/sdk/responses"
)

// GetUserLicense invokes the linkwan.GetUserLicense API synchronously
func (client *Client) GetUserLicense(request *GetUserLicenseRequest) (response *GetUserLicenseResponse, err error) {  response = CreateGetUserLicenseResponse()  err = client.DoAction(request, response)
func (client *Client) GetUserLicenseWithChan(request *GetUserLicenseRequest) (<-chan *GetUserLicenseResponse, <-chan error) {
responseChan := make(chan *GetUserLicenseResponse, 1)
errChan := make(chan error, 1)
err := client.AddAsyncTask(func() {
    defer close(responseChan)
    defer close(errChan)
    response, err := client.GetUserLicense(request)
    if err != nil {
        errChan <- err
    } else {
        responseChan <- response
    }
})
if err != nil {
    errChan <- err
    close(responseChan)
    close(errChan)
}
return responseChan, errChan

func (client *Client) GetUserLicenseWithCallback(request *GetUserLicenseRequest, callback func(response *GetUserLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *GetUserLicenseResponse
        var err error
        defer close(result)
        response, err = client.GetUserLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

// GetUserLicenseRequest is the request struct for api GetUserLicense
type GetUserLicenseRequest struct{


*requests.RpcRequest
ApiProduct string `position:"Body" name:"ApiProduct"
ApiRevision string `position:"Body" name:"ApiRevision"
}

// GetUserLicenseResponse is the response struct for api GetUserLicense
type GetUserLicenseResponse struct {
*responses.BaseResponse
Success bool `json:"Success" xml:"Success"
RequestId string `json:"RequestId" xml:"RequestId"
Data Data `json:"Data" xml:"Data"
}

// CreateGetUserLicenseRequest creates a request to invoke GetUserLicense API
func CreateGetUserLicenseRequest() (request *GetUserLicenseRequest) {
request = &GetUserLicenseRequest{
RpcRequest: &requests.RpcRequest{},
}
request.InitWithApiInfo("LinkWAN", "2019-03-01", "GetUserLicense", "linkwan", "openAPI")
request.Method = requests.POST
return
}

// CreateGetUserLicenseResponse creates a response to parse from GetUserLicense response
func CreateGetUserLicenseResponse() (response *GetUserLicenseResponse) {
response = &GetUserLicenseResponse{
BaseResponse: &responses.BaseResponse{},
}
return
}

package arms

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//
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import (
// DescribeTraceLicenseKey invokes the arms.DescribeTraceLicenseKey API synchronously
func (client *Client) DescribeTraceLicenseKey(request *DescribeTraceLicenseKeyRequest) (response *DescribeTraceLicenseKeyResponse, err error) {
    response = CreateDescribeTraceLicenseKeyResponse()
    err = client.DoAction(request, response)
    return
}

// DescribeTraceLicenseKeyWithChan invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithChan(request *DescribeTraceLicenseKeyRequest) (<-chan *DescribeTraceLicenseKeyResponse, <-chan error) {
    responseChan := make(chan *DescribeTraceLicenseKeyResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.DescribeTraceLicenseKey(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

// DescribeTraceLicenseKeyWithCallback invokes the arms.DescribeTraceLicenseKey API asynchronously
func (client *Client) DescribeTraceLicenseKeyWithCallback(request *DescribeTraceLicenseKeyRequest, callback func(response *DescribeTraceLicenseKeyResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *DescribeTraceLicenseKeyResponse
        var err error
        defer close(result)
        response, err = client.DescribeTraceLicenseKey(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {

defer close(result)
callback(nil, err)
result <- 0
}
return result

// DescribeTraceLicenseKeyRequest is the request struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyRequest struct {
  *requests.RpcRequest
}

// DescribeTraceLicenseKeyResponse is the response struct for api DescribeTraceLicenseKey
type DescribeTraceLicenseKeyResponse struct {
  *responses.BaseResponse
  RequestId string `json:"RequestId" xml:"RequestId"
  LicenseKey string `json:"LicenseKey" xml:"LicenseKey"
}

// CreateDescribeTraceLicenseKeyRequest creates a request to invoke DescribeTraceLicenseKey API
func CreateDescribeTraceLicenseKeyRequest() (request *DescribeTraceLicenseKeyRequest) {
  request = &DescribeTraceLicenseKeyRequest{
    RpcRequest: &requests.RpcRequest{},
  }
  request.InitWithApiInfo("ARMS", "2019-08-08", "DescribeTraceLicenseKey", "arms", "openAPI")
  request.Method = requests.POST
  return
}

// CreateDescribeTraceLicenseKeyResponse creates a response to parse from DescribeTraceLicenseKey response
func CreateDescribeTraceLicenseKeyResponse() (response *DescribeTraceLicenseKeyResponse) {
  response = &DescribeTraceLicenseKeyResponse{
    BaseResponse: &responses.BaseResponse{},
  }
  return
}

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import (
    "github.com/aliyun/aliyun-cloud-sdk-go/sdk/requests"
    "github.com/aliyun/aliyun-cloud-sdk-go/sdk/responses"
)

// RecognizeDrivingLicense invokes the ocr.RecognizeDrivingLicense API synchronously
func (client *Client) RecognizeDrivingLicense(request *RecognizeDrivingLicenseRequest) (response
    *RecognizeDrivingLicenseResponse, err error) {
    response = CreateRecognizeDrivingLicenseResponse()
    err = client.DoAction(request, response)
    return
}
RecognizeDrivingLicenseWithChan invokes the ocr.RecognizeDrivingLicense API asynchronously
func (client *Client) RecognizeDrivingLicenseWithChan(request *RecognizeDrivingLicenseRequest) (<-chan *RecognizeDrivingLicenseResponse, <-chan error) {
    responseChan := make(chan *RecognizeDrivingLicenseResponse, 1)
    errChan := make(chan error, 1)
    err := client.AddAsyncTask(func() {
        defer close(responseChan)
        defer close(errChan)
        response, err := client.RecognizeDrivingLicense(request)
        if err != nil {
            errChan <- err
        } else {
            responseChan <- response
        }
    })
    if err != nil {
        errChan <- err
        close(responseChan)
        close(errChan)
    }
    return responseChan, errChan
}

RecognizeDrivingLicenseWithCallback invokes the ocr.RecognizeDrivingLicense API asynchronously
func (client *Client) RecognizeDrivingLicenseWithCallback(request *RecognizeDrivingLicenseRequest, callback func(response *RecognizeDrivingLicenseResponse, err error)) <-chan int {
    result := make(chan int, 1)
    err := client.AddAsyncTask(func() {
        var response *RecognizeDrivingLicenseResponse
        var err error
        defer close(result)
        response, err = client.RecognizeDrivingLicense(request)
        callback(response, err)
        result <- 1
    })
    if err != nil {
        defer close(result)
        callback(nil, err)
        result <- 0
    }
    return result
}

RecognizeDrivingLicenseRequest is the request struct for api RecognizeDrivingLicense
type RecognizeDrivingLicenseRequest struct {
    *requests.RpcRequest
    ImageType requests.Integer `position:"Body" name:"ImageType"
    Side string `position:"Body" name:"Side"`
ImageURL string  

// RecognizeDrivingLicenseResponse is the response struct for api RecognizeDrivingLicense type RecognizeDrivingLicenseResponse struct {
*responses.BaseResponse
RequestId string `json:"RequestId" xml:"RequestId"
Data Data `json:"Data" xml:"Data"
}

// CreateRecognizeDrivingLicenseRequest creates a request to invoke RecognizeDrivingLicense API func CreateRecognizeDrivingLicenseRequest() (request *RecognizeDrivingLicenseRequest) {
request = &RecognizeDrivingLicenseRequest{
RpcRequest: &requests.RpcRequest{},
}
request.InitWithApiInfo("ocr", "2019-12-30", "RecognizeDrivingLicense", "ocr", "openAPI")
request.Method = requests.POST
return
}

// CreateRecognizeDrivingLicenseResponse creates a response to parse from RecognizeDrivingLicense response func CreateRecognizeDrivingLicenseResponse() (response *RecognizeDrivingLicenseResponse) {
response = &RecognizeDrivingLicenseResponse{
BaseResponse: &responses.BaseResponse{},
}
return
}

1.436 x-crypto 0.0.0-20200323165209-0ec3e9974c59

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1.437 go-wordwrap 1.0.0

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1.439 kylelemons-godebug 1.1.0
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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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

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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. 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.

1.442 mgo 2.0.0-20190816093944-a6b53ec6cb22
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mgo - MongoDB driver for Go

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1.443 go-shellwords 1.0.4

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1.444 snappy-java 1.1.7

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1.445 go-retryablehttp 0.5.2

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1.446 py3-contextlib 0.6.0-r1

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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 that included the contextlib module.

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1.447 simpleclient-common 0.6.0

1.448 rcrowley-go-metrics 0.0.0-20190826022208-cac0b30c2563
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1.449 cglib 2.1_3

1.450 userinfo-java 1.1.0

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1.451 gdbm 1.19-r0

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1.453 log4j-slf4j-impl 2.13.3

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1.454 jetty-servlet 9.4.33.v20201020

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* org.eclipse.jetty.orbit:javաx.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

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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-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

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org.apache.tomcat:tomcat-jasper-el
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org.eclipse.jetty.toolchain:jetty-schemas

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1.462 libdevmapper 2.02.187-r1

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

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

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1.464 spring-data-rest-webmvc 3.4.6

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* /opt/cola/permits/1165510021_1621030470.17/0/spring-data-rest-webmvc-3-4-6-sources-
  jar/org/springframework/data/rest/webmvc/support/MappedProperties.java
* /opt/cola/permits/1165510021_1621030470.17/0/spring-data-rest-webmvc-3-4-6-sources-
  jar/org/springframework/data/rest/webmvc/json/MappingAwareSortArgumentResolver.java
* /opt/cola/permits/1165510021_1621030470.17/0/spring-data-rest-webmvc-3-4-6-sources-
  jar/org/springframework/data/rest/webmvc/support/DefaultExcerptProjector.java

1.465 ehcache-core 3.8.1

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  jar/org/ehcache/core/spi/time/package-info.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/store/StoreSupport.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/statistics/TierOperationOutcomes.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/spi/store/AbstractWrapperStoreProvider.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/spi/store/events/StoreEventFilter.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/spi/time/TimeSourceService.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/statistics/StoreOperationOutcomes.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/CacheConfigurationProperty.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/exceptions/StorePassThroughException.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/config/package-info.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/InternalRuntimeConfiguration.java
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  jar/org/ehcache/core/spi/tiering/LowerCachingTier.java
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  jar/org/ehcache/core/spi/service/CacheManagerProviderService.java
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  jar/org/ehcache/core/HumanReadable.java
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  jar/org/ehcache/core/spi/time/TickingTimeSource.java
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  jar/org/ehcache/core/spi/store/Store.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1-
  jar/org/ehcache/core/internal/resilience/ThrowingResilienceStrategy.java
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  jar/org/ehcache/core/DefaultCacheManagerProviderService.java
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  jar/org/ehcache/core/spi/store/heap/SizeOfEngine.java
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* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1.jar/org/ehcache/core/spi/time/TimeSource.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1.jar/org/ehcache/core/statistics/DelegatedMappedOperationStatistics.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1.jar/org/ehcache/core/statistics/ChainedObserver.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1.jar/org/ehcache/core/spi/ServiceLocator.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1.jar/org/ehcache/core/EhcacheBase.java
* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1.jar/org/ehcache/core/statistics/OperationStatistic.java
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* /opt/cola/permits/1135872870_1613620715.23/0/ehcache-core-3-8-1-sources-1.jar/org/ehcache/core/spi/service/FileBasedPersistenceContext.java
1.466 viper 1.3.2

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1.469 distro 1.5.0

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For lib/py/compat/win32/stdint.h

// ISO C9x compliant stdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.476 ldaptive-unboundid 1.2.4

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Manifest-Version: 1.0
Bundle-Description: Ldaptive unboundid provider
Bundle-SymbolicName: org.ldaptive.unboundid
Built-By: dfisher
Bnd-LastModified: 1547674860750
Bundle-ManifestVersion: 2
Import-Package: com.unboundid.asn1;version="[4.0,5)".com.unboundid.idap.sdk;version="[4.0,5)".com.unboundid.idap.sdk.controls;version="[4.0,5)".com.unboundid.idap.sdk.extensions;version="[4.0,5)".com.unboundid.idap.util.ssl;version="[4.0,5)".javax.net,javax.net.ssl,org.ldaptive;version="[1.2,2)".org.ldaptive.async;version="[1.2,2)".org.ldaptive.control;version="[1.2,2)".org.ldaptive.extended;version="[1.2,2)".org.ldaptive.intermediate;version="[1.2,2)".org.ldaptive.provider;version="[1.2,2)".org.ldaptive.sasl;version="[1.2,2)".org.ldaptive.ssl;version="[1.2,2)".org.slf4j;version="[1.7,2)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-4.1.0.201810181252
Originally-Created-By: Apache Maven Bundle Plugin
Export-Package: org.ldaptive.provider.unboundid;version="1.2.4";uses:=
1.477 go-yaml 2.3.0
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1.478 golang-snappy 0.0.2

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1.480 backports.entry-points-selectable 1.1.0

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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  jar/io/netty/handler/codec/socks/Method.java
1.520 prometheus-common 0.6.0

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1.521 clockwork 0.2.2

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Clockwork - a clock 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 cron replacement. It runs as 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.

Quickstart
----------
Create clock.rb:

```ruby
require 'clockwork'
include Clockwork

handler do |job|
  puts "Running #{job}"
end

every(10.seconds, 'frequent.job')
every(3.minutes, 'less.frequent.job')
every(1.hour, 'hourly.job')

every(1.day, 'midnight.job', :at => '00:00')

Run it with the clockwork binary:

```
$ clockwork clock.rb
```

Use with queueing

----------

The clock process 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 clock process with no locks, but also offers near infinite horizontal
scalability.

For example, if you're using Beanstalk/Staker:

```ruby
require 'stalker'

handler { |job| Stalker.enqueue(job) }

every(1.hour, 'feeds.refresh')
every(1.day, 'reminders.send', :at => '01:30')
```

Using a queueing system which doesn't require that your full application be
loaded is preferable, because the clock process can keep a tiny memory
footprint. If you're using DJ or Resque, however, you can go ahead and load
your full application environment, and use per-event blocks to call DJ or Resque enqueue methods. For example, with DJ/Rails:

    require 'config/boot'
    require 'config/environment'

    every(1.hour, 'feeds.refresh') { Feed.send_later(:refresh) }
    every(1.day, 'reminders.send', :at => '01:30') { Reminder.send_later(:send_reminders) }

Anatomy of a clock file
-----------------------

clock.rb is standard Ruby. Since we include the Clockwork module (the clockwork binary does this automatically, or you can do it explicitly), this exposes a small DSL ("handler" and "every") to define the handler for events, and then the events themselves.

The handler typically looks like this:

    handler { |job| enqueue_your_job(job) }

This block will be invoked every time an event is triggered, with the job name passed in. In most cases, you should be able to pass the job name directly through to your queueing system.

The second part of the file are the events, which roughly resembles a crontab:

    every(5.minutes, 'thing.do')
    every(1.hour, 'otherthing.do')

In the first line of this example, an event will be triggered once every five minutes, passing the job name 'thing.do' into the handler. The handler shown above would thus call enqueue_your_job('thing.do').

You can also pass a custom block to the handler, for job queueing systems that rely on classes rather than job names (i.e. DJ and Resque). In this case, you need not define a general event handler, and instead provide one with each event:

    every(5.minutes, 'thing.do') { Thing.send_later(:do) }

If you provide a custom handler for the block, the job name is used only for logging.

You can also use blocks to do more complex checks:

    every(1.day, 'check.leap.year') do
      Stalker.enqueue('leap.year.party') if Time.now.year % 4 == 0
In production
-------------

Only one clock 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:

* App server 1: 3 web (thin start), 3 workers (rake jobs:work), 1 clock (clockwork clock.rb)
* App server 2: 3 web (thin start), 3 workers (rake jobs:work)

You should use Monit, God, Upstart, or Inittab to keep your clock 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 [resque-scheduler](http://github.com/bvandenbos/resque-scheduler)

Design assistance from Peter van Hardenberg and Matthew Soldo

Patches contributed by Mark McGranaghan

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http://github.com/adamwiggins/clockwork

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* /opt/cola/permits/1213082843_1634008352.31/0/clockwork-0-2-2-1-gem/data-tar-gz/README.md

1.522 fsnotify 1.4.7

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1.524 google-go-cmp 0.5.4

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1.527 spring-data-rest-core 3.4.6

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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/annotation/HandleBeforeLinkSave.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/event/AnnotatedEventHandlerInvoker.java
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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/annotation/HandleBeforeLinkDelete.java
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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/annotation/RestResource.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/config/RepositoryRestConfiguration.java
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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/annotation/RepositoryEventHandler.java
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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/PersistentEntitiesResourceMappings.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/PersistentPropertyResourceMapping.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/support/EntityLookup.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/config/JsonSchemaFormat.java

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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/PersistentEntitiesResourceMappings.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/PersistentPropertyResourceMapping.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/support/EntityLookup.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/config/JsonSchemaFormat.java
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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/StringToLdapNameConverter.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/ConfigurableHttpMethods.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/ExposureConfigurer.java
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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/ExposureConfiguration.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/support/ResourceStringUtils.java

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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/CollectionResourceMapping.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/TypeBasedCollectionResourceMapping.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/support/ResourceStringUtils.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/ResourceMapping.java
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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/SearchResourceMappings.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/support/RepositoryRelProvider.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/util/MapUtils.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/EvoInflectorTypeBasedCollectionResourceMapping.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/RepositoryCollectionResourceMapping.java
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* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/ResourceMetadata.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/support/SimpleRelProvider.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/mapping/MethodResourceMapping.java
* /opt/cola/permits/1152463012_1618242039.44/0/spring-data-rest-core-3-4-6-sources-jar/org/springframework/data/rest/core/config/ResourceMappingConfiguration.java

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1.528 zlib 1.2.11

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version 1.2.11, January 15th, 2017

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1.536 apache-log4j 1.2.17

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 */

/*
 * $Id: Version.src 1225426 2011-12-29 04:13:08Z mrglavas $
 */
package org.apache.xalan;

/**
 * Administrative class to keep track of the version number of
 * the Xalan release.
 * <P>This class implements the upcoming standard of having
 * org.apache.project-name.Version.getVersion() be a standard way
 * to get version information. This class will replace the older
 * org.apache.xalan.processor.Version class.</P>
 * <P>See also: org/apache/xalan/res/XSLTInfo.properties for
 * information about the version of the XSLT spec we support.</P>
 * @xsl.usage general
 */
public class Version {

/**
 * Get the basic version string for the current Xalan release.
 * Version String formatted like
 * Futurework: have this read version info from jar manifest.
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct() + " getImplementationLanguage() + "
    + getMajorVersionNum() + " getReleaseVersionNum() + "
    + ((getDevelopmentVersionNum() > 0) ?
        ("D" + getDevelopmentVersionNum()) : ("" + getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Xalan.
 */
public static String getProduct()
{
    return "Xalan";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}

/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 *
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */
public static int getMajorVersionNum()
{
return @version.VERSION@;

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */
public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */
public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
 * Optional identifier designates development drop of
 * a specific release. D01 is the first development drop
 * of a new release.
 *
 * Development drops are works in progress towards a
 * completed, final release. A specific development drop
 * may not completely implement all aspects of a new
 * feature, which may take several development drops to
 * complete. At the point of the final drop for the
 * release, the D suffix will be omitted.
 *
 * Each 'D' drops can contain functional enhancements as
 * well as defect fixes. 'D' drops may not be as stable as
 * the final releases.
 */
public static int getDevelopmentVersionNum()
{
    try {
        if (((new String("@version.DEVELOPER@"))).length() == 0)
            return 0;
        else
            return Integer.parseInt("@version.DEVELOPER@");
    } catch (NumberFormatException nfe) {
        return 0;
    }
}

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 */

/**
 * This is a special exception that is used to stop parsing when
 * search for an element. For instance, when searching for xml:stylesheet
 * PIs, it is used to stop the parse once the document element is found.
 * @see StylesheetPIHandler
 * @xsl.usage internal
 */

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/*
* $Id: Version.src 468654 2006-10-28 07:09:23Z minchau $
*/
package org.apache.xml.serializer;

/**
* Administrative class to keep track of the version number of
* the Serializer release.
* <P>This class implements the upcoming standard of having
* org.apache.project-name.Version.getVersion() be a standard way
public final class Version
{

/**
 * Get the basic version string for the current Serializer.
 * Version String formatted like
 * <CODE>"<B>Serializer</B> <B>Java</B> v.r[.dd| <B>D</B>nn"]</CODE>.
 *
 * Futurework: have this read version info from jar manifest.
 *
 * @return String denoting our current version
 */
public static String getVersion()
{
    return getProduct()+" "+getImplementationLanguage()+" "
        +getMajorVersionNum()+"."+getReleaseVersionNum()+"."
        +((getDevelopmentVersionNum() > 0) ?
            ("D"+getDevelopmentVersionNum()) : (""+getMaintenanceVersionNum()));
}

/**
 * Print the processor version to the command line.
 *
 * @param argv command line arguments, unused.
 */
public static void main(String argv[])
{
    System.out.println(getVersion());
}

/**
 * Name of product: Serializer.
 */
public static String getProduct()
{
    return "Serializer";
}

/**
 * Implementation Language: Java.
 */
public static String getImplementationLanguage()
{
    return "Java";
}
/**
 * Major version number.
 * Version number. This changes only when there is a
 * significant, externally apparent enhancement from
 * the previous release. 'n' represents the n'th
 * version.
 * Clients should carefully consider the implications
 * of new versions as external interfaces and behaviour
 * may have changed.
 */

public static int getMajorVersionNum()
{
    return @version.VERSION@;
}

/**
 * Release Number.
 * Release number. This changes when:
 * - a new set of functionality is to be added, eg,
 *   implementation of a new W3C specification.
 * - API or behaviour change.
 * - its designated as a reference release.
 */

public static int getReleaseVersionNum()
{
    return @version.RELEASE@;
}

/**
 * Maintenance Drop Number.
 * Optional identifier used to designate maintenance
 * drop applied to a specific release and contains
 * fixes for defects reported. It maintains compatibility
 * with the release and contains no API changes.
 * When missing, it designates the final and complete
 * development drop for a release.
 */

public static int getMaintenanceVersionNum()
{
    return @version.MINOR@;
}

/**
 * Development Drop Number.
* Optional identifier designates development drop of  
  * a specific release. D01 is the first development drop  
  * of a new release.  
  *  
  * Development drops are works in progress towards a  
  * completed, final release. A specific development drop  
  * may not completely implement all aspects of a new  
  * feature, which may take several development drops to  
  * complete. At the point of the final drop for the  
  * release, the D suffix will be omitted.  
  *  
  * Each 'D' drops can contain functional enhancements as  
  * well as defect fixes. 'D' drops may not be as stable as  
  * the final releases.  
*/
public static int getDevelopmentVersionNum()  
{  
try {  
  if ("@version.DEVELOPER@".length() == 0)  
    return 0;  
  else  
    return Integer.parseInt("@version.DEVELOPER@");  
} catch (NumberFormatException nfe) {  
  return 0;  
}  
}

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 */
Major version number.

Version number. This changes only when there is a
significant, externally apparent enhancement from
the previous release. 'n' represents the n'th
version.

Clients should carefully consider the implications
of new versions as external interfaces and behaviour
may have changed.

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/** The 'document-location()' id (Proprietary). */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_unknown.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan/res/XSLTInfo.properties
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/Makefile.inc
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/output_html.properties
No license file was found, but licenses were detected in source scan.
package org.apache.xalan.xslt.compiler;

import java.util.Stack;
import java.util.Vector;
import java.io.StringReader;
import java_cup.runtime.*;
import org.apache.xml.dtm.DTM;
import org.apache.xalan.xslt.DOM;
import org.apache.xalan.xslt.axis.Axis;
import org.apache.xalan.xslt.runtime.Operators;
import org.apache.xalan.xslt.compiler.util.ErrorMsg;

/*
 * @author Jacek Ambroziak
 * @author Santiago Pericas-Geertsen
 * @author Morten Jorgensen
 * @author G. Todd Miller
 */

/* $Id: xpath.cup 1225752 2011-12-30 04:12:46Z mrglavas $ */

/*
 * Used by function calls with no args.
 */
static public final Vector EmptyArgs = new Vector(0);

parser code {:
  /**
   * @author Jacek Ambroziak
   * @author Santiago Pericas-Geertsen
   * @author Morten Jorgensen
   * @author G. Todd Miller
   */

package org.apache.xalan.xslt.compiler;
* Reference to non-existing variable.
*/
static public final VariableRef DummyVarRef = null;

/**
* Reference to the Parser class.
*/
private Parser _parser;
private XSLTC _xsltc;

/**
* String representation of the expression being parsed.
*/
private String _expression;

/**
* Line number where this expression/pattern was declared.
*/
private int _lineNumber = 0;

/**
* Reference to the symbol table.
*/
public SymbolTable _symbolTable;

public XPathParser(Parser parser) {
    _parser = parser;
    _xsltc = parser.getXSLTC();
    _symbolTable = parser.getSymbolTable();
}

public int getLineNumber() {
    return _lineNumber;
}

public QName getQNameIgnoreDefaultNs(String name) {
    return _parser.getQNameIgnoreDefaultNs(name);
}

public QName getQName(String namespace, String prefix, String localname) {
    return _parser.getQName(namespace, prefix, localname);
}

public void setMultiDocument(boolean flag) {
    _xsltc.setMultiDocument(flag);
}

public void setCallsNodeset(boolean flag) {

_xsltc.setCallsNodeset(flag);
}

public void setHasIdCall(boolean flag) {
    _xsltc.setHasIdCall(flag);
}

/**
 * This method is similar to findNodeType(int, Object) except that it
 * creates a StepPattern instead of just returning a node type. It also
 * differs in the way it handles "\{uri\}:*" and \{uri\}:@*". The last two
 * patterns are expanded as "*[namespace-uri() = 'uri']" and
 * "@*[namespace-uri() = 'uri']", respectively. This expansion considerably
 * simplifies the grouping of patterns in the Mode class. For this
 * expansion to be correct, the priority of the pattern/template must be
 * set to -0.25 (when no other predicates are present).
 */
public StepPattern createStepPattern(int axis, Object test, Vector predicates) {
    int nodeType;

    if (test == null) {  // "*"
        nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
            (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;

        return new StepPattern(axis, nodeType, predicates);
    }
    else if (test instanceof Integer) {
        nodeType = ((Integer) test).intValue();

        return new StepPattern(axis, nodeType, predicates);
    }
    else {
        QName name = (QName)test;
        boolean setPriority = false;

        if (axis == Axis.NAMESPACE) {
            nodeType = (name.toString().equals("*")) ? -1 :
                _xsltc.registerNamespacePrefix(name);
        }
        else {
            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            final String uri = name.getNamespace();
            final String local = name.getLocalPart();
            final QName namespace_uri =
                _parser.getQNameIgnoreDefaultNs("namespace-uri");

            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*  
                if (uri != null && (local.equals("*") || local.equals("@*"))) {
                    // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                    if (uri != null && (local.equals("*") || local.equals("@*"))) {
                        // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                        if (uri != null && (local.equals("*") || local.equals("@*"))) {
                            // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                    // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                    if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                        // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                        if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                            // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                    // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                    if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                        // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                        if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                            // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                    // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                    if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                        // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                        if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                            // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                    // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                    if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                        // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                        if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                            // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                    // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                    if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                        // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                        if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                            // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                                // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                                if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                                    // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                                    if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                                        // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                                        if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                                            // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                                            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                                                // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                                                if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                                                    // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                                                    if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                                                        // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                                                        if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                                                            // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                                                                            if (uri != null && (local.equals("*") || local.equals("@*"))) {
                                                                                                                                                // Expand \{uri\}:* to *[namespace-uri() = 'uri'] - same for @*
                                                                                }  
                                                                            }  
                                                                        }  
                                                                    }  
                                                                }  
                                                            }  
                                                        }  
                                                    }  
                                                }  
                                            }  
                                        }  
                                    }  
                                }  
                            }  
                        }  
                    }  
                }  
            }  
        }  
    }  
}
if (predicates == null) {
  predicates = new Vector(2);
}

// Priority is set by hand if no other predicates exist
setPriority = (predicates.size() == 0);

  predicates.add(
    new Predicate(
      new EqualityExpr(Operators.EQ,
        new NamespaceUriCall(namespace_uri),
        new LiteralExpr(uri)));
  }

if (local.equals("*")) {
  nodeType = (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE : NodeTest.ELEMENT;
}
else if (local.equals("@*")) {
  nodeType = NodeTest.ATTRIBUTE;
}
else {
  nodeType = (axis == Axis.ATTRIBUTE) ? _xsltc.registerAttribute(name) : _xsltc.registerElement(name);
}

final StepPattern result = new StepPattern(axis, nodeType, predicates);

  // Set priority for case prefix:* and prefix:@* (no predicates)
  if (setPriority) {
    result.setPriority(-0.25);
  }

  return result;
}

public int findNodeType(int axis, Object test) {
  if (test == null) {  // *
    return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE :
      (axis == Axis.NAMESPACE) ? -1 : NodeTest.ELEMENT;
  }
  else if (test instanceof Integer) {
    return ((Integer)test).intValue();
  }
  else {
QName name = (QName)test;

    if (axis == Axis.NAMESPACE) {
        return (name.toString().equals("*")) ? -1
            : _xslt.registerNamespacePrefix(name);
    }

    if (name.getNamespace() == null) {
        final String local = name.getLocalPart();

        if (local.equals("*")) {
            return (axis == Axis.ATTRIBUTE) ? NodeTest.ATTRIBUTE
                : NodeTest.ELEMENT;
        }
        else if (local.equals("@*")) {
            return NodeTest.ATTRIBUTE;
        }
    }

    return (axis == Axis.ATTRIBUTE) ? _xslt.registerAttribute(name)
        : _xslt.registerElement(name);
}

/**
 * Parse the expression passed to the current scanner. If this
 * expression contains references to local variables and it will be
 * compiled in an external module (not in the main class) request
 * the current template to create a new variable stack frame.
 *
 * @param lineNumber Line where the current expression is defined.
 * @param external   Set to <tt>true</tt> if this expression is
 *                   compiled in a separate module.
 * @param
 */
public Symbol parse(String expression, int lineNumber) throws Exception {
    try {
        _expression = expression;
        _lineNumber = lineNumber;
        return super.parse();
    }
    catch (IllegalCharException e) {
        ErrorMsg err = new ErrorMsg(ErrorMsg.ILLEGAL_CHAR_ERR,
            lineNumber, e.getMessage());
        _parser.reportError(Constants.FATAL, err);
    }
    return null;
}
/**
 * Lookup a variable or parameter in the symbol table given its name.
 *
 * @param name Name of the symbol being looked up.
 */
final SyntaxTreeNode lookupName(QName name) {
    // Is it a local var or param ?
    final SyntaxTreeNode result = _parser.lookupVariable(name);
    if (result != null)
        return(result);
    else
        return(_symbolTable.lookupName(name));
}

public final void addError(ErrorMsg error) {
    _parser.reportError(Constants.ERROR, error);
}

public void report_error(String message, Object info) {
    final ErrorMsg err = new ErrorMsg(ErrorMsg.SYNTAX_ERR, _lineNumber,
                                       _expression);
    _parser.reportError(Constants.FATAL, err);
}

public void report_fatal_error(String message, Object info) {
    // empty
}

public RelativeLocationPath insertStep(Step step, RelativeLocationPath rlp) {
    if (rlp instanceof Step) {
        return new ParentLocationPath(step, (Step) rlp);
    }
    else if (rlp instanceof ParentLocationPath) {
        final ParentLocationPath plp = (ParentLocationPath) rlp;
        final RelativeLocationPath newrlp = insertStep(step, plp.getPath());
        return new ParentLocationPath(newrlp, plp.getStep());
    }
    else {
        addError(new ErrorMsg(ErrorMsgINTERNAL_ERR, "XPathParser.insertStep");
        return rlp;
    }
}

/**
 * Returns true if the axis applies to elements only. The axes
 * child, attribute, namespace, descendant result in non-empty
 * nodesets only if the context node is of type element.
 */
public boolean isElementAxis(int axis) {
    return (axis == Axis.CHILD || axis == Axis.ATTRIBUTE ||
            axis == Axis.NAMESPACE || axis == Axis.DESCENDANT);
}

terminal SLASH, DOT, LBRACK, RBRACK, VBAR, LPAREN, RPAREN, STAR, COMMA;
terminal DOLLAR, ATSIGN;
terminal DDOT, DCOLON, DSLASH;
terminal EQ, NE;
terminal LT, GT, LE, GE;
terminal PLUS, MINUS, DIV, MOD, MULT;
terminal String Literal;
terminal String QName;
terminal ID, KEY, TEXT, NODE, OR, AND, COMMENT, PI, PIPARAM, PRECEDINGSIBLING;
terminal SELF, PARENT, CHILD, ATTRIBUTE, ANCESTOR, ANCESTORORSELF, DESCENDANT;
terminal DESCENDANTORSELF, FOLLOWING, FOLLOWINGSIBLING, NAMESPACE, PRECEDING;
terminal Double REAL;
terminal Long INT;
terminal PATTERN, EXPRESSION;

non terminal SyntaxTreeNode TopLevel;

non terminal Expression Expr, Argument, LocationPath;
non terminal Expression Predicate, FilterExpr, Step;
non terminal Expression OrExpr, AndExpr, EqualityExpr;
non terminal Expression RelationalExpr, AdditiveExpr;
non terminal Expression MultiplicativeExpr, UnaryExpr;
non terminal Expression VariableReference, FunctionCall;
non terminal Expression PrimaryExpr, UnionExpr, PathExpr, AbbreviatedStep;
non terminal Expression RelativeLocationPath, AbbreviatedRelativeLocationPath;
non terminal Expression AbsoluteLocationPath, AbbreviatedAbsoluteLocationPath;

non terminal Object NodeTest, NameTest;

non terminal IdKeyPattern IdKeyPattern;
non terminal Pattern Pattern;
non terminal Pattern LocationPathPattern;
non terminal StepPattern ProcessingInstructionPattern;
non terminal RelativePathPattern RelativePathPattern;
non terminal StepPattern StepPattern;
non terminal Object NodeTestPattern, NameTestPattern;

non terminal Vector Predicates, NonemptyArgumentList;
non terminal QName QName, FunctionName, VariableName;
non terminal Integer AxisName, AxisSpecifier;
non terminal Integer ChildOrAttributeAxisSpecifier;
precedence left VBAR;
precedence left OR;
precedence left AND;
precedence nonassoc EQ, NE;
precedence left LT, GT, LE, GE;

precedence left PLUS, MINUS;
precedence left DIV, MOD, MULT;
precedence left DOLLAR;
precedence left ATSIGN;
precedence right DCOLON;

start with TopLevel;

TopLevel ::= PATTERN Pattern:pattern
    [: RESULT = pattern; :]
    | EXPRESSION Expr:expr
    [: RESULT = expr; :];

/* --------------------------- Patterns ----------------------------------- */

Pattern ::= LocationPathPattern:lpp
    [: RESULT = lpp; :]
    | LocationPathPattern:lpp VBAR Pattern:p
    [: RESULT = new AlternativePattern(lpp, p); :];

LocationPathPattern ::= SLASH
    [: RESULT = new AbsolutePathPattern(null); :]
    | SLASH RelativePathPattern:rpp
    [: RESULT = new AbsolutePathPattern(rpp); :]
    | IdKeyPattern:ikp
    [: RESULT = ikp; :]
    | IdKeyPattern:ikp SLASH RelativePathPattern:rpp
    [: RESULT = new ParentPattern(ikp, rpp); :]
    | IdKeyPattern:ikp DSLASH RelativePathPattern:rpp
    [: RESULT = new AncestorPattern(ikp, rpp); :]
    | DSLASH RelativePathPattern:rpp
    [: RESULT = new AncestorPattern(rpp); :]
    | RelativePathPattern:rpp
IdKeyPattern ::= ID LPAREN Literal:l RPAREN
   { : RESULT = new IdPattern(l); parser.setHasIdCall(true); : }

| KEY LPAREN Literal:l1 COMMA Literal:l2 RPAREN
   { : RESULT = new KeyPattern(l1, l2); : }

ProcessingInstructionPattern ::= PIPARAM LPAREN Literal:l RPAREN
   { : RESULT = new ProcessingInstructionPattern(l); : }

RelativePathPattern ::= StepPattern:sp
   { : RESULT = sp; : }

| StepPattern:sp SLASH RelativePathPattern:rpp
   { : RESULT = new ParentPattern(sp, rpp); : }

| StepPattern:sp DSLASH RelativePathPattern:rpp
   { : RESULT = new AncestorPattern(sp, rpp); : }

StepPattern ::= NodeTestPattern:nt
   { :
     RESULT = parser.createStepPattern(Axis.CHILD, nt, null);
   : }

| NodeTestPattern:nt Predicates:pp
   { :
     RESULT = parser.createStepPattern(Axis.CHILD, nt, pp);
   : }

| ProcessingInstructionPattern:pip
   { : RESULT = pip; : }

| ProcessingInstructionPattern:pip Predicates:pp
   { : RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); : }

| ChildOrAttributeAxisSpecifier:axis NodeTestPattern:nt
   { :
     RESULT = parser.createStepPattern(axis.intValue(), nt, null);
   : }

| ChildOrAttributeAxisSpecifier:axis
NodeTestPattern:nt Predicates:pp
   { :
     RESULT = parser.createStepPattern(axis.intValue(), nt, pp);
   : }
| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip |
| : |
| RESULT = pip; // TODO: report error if axis is attribute |
| : |

| ChildOrAttributeAxisSpecifier:axis ProcessingInstructionPattern:pip |
| Predicates:pp |
| : |
| // TODO: report error if axis is attribute |
| RESULT = (ProcessingInstructionPattern)pip.setPredicates(pp); |
| : |

NodeTestPattern ::= NameTestPattern:nt |
| : RESULT = nt; : |

| NODE |
| : RESULT = new Integer(NodeTest.ANODE); : |

| TEXT |
| : RESULT = new Integer(NodeTest.TEXT); : |

| COMMENT |
| : RESULT = new Integer(NodeTest.COMMENT); : |

| PI |
| : RESULT = new Integer(NodeTest.PI); : |

NameTestPattern ::= STAR |
| : RESULT = null; : |

| QName:qn |
| : RESULT = qn; : |

ChildOrAttributeAxisSpecifier ::= ATSIGN |
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

| CHILD DCOLON |
| : RESULT = new Integer(Axis.CHILD); : |

| ATTRIBUTE DCOLON |
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

Predicates ::= Predicate:p |
| : |
| Vector temp = new Vector(); |
| temp.addElement(p); |
| RESULT = temp; |
Predicate ::= LBRACK Expr:e RBRACK
{:
RESULT = new Predicate(e);
:};

Expr ::= OrExpr:ex
{:
RESULT = ex;
:};

OrExpr ::= AndExpr:ae
{:
RESULT = ae;
:}

| OrExpr:oe OR AndExpr:ae
{:
RESULT = new LogicalExpr(LogicalExpr.OR, oe, ae);
:};

AndExpr ::= EqualityExpr:ee
{:
RESULT = ee;
:}

| AndExpr:ae AND EqualityExpr:ee
{:
RESULT = new LogicalExpr(LogicalExpr.AND, ae, ee);
:};

EqualityExpr ::= RelationalExpr:re
{:
RESULT = re;
:}

| EqualityExpr:ee EQ RelationalExpr:re
{:
RESULT = new EqualityExpr(Operators.EQ, ee, re);
:}

| EqualityExpr:ee NE RelationalExpr:re
{:
RESULT = new EqualityExpr(Operators.NE, ee, re);
:};

RelationalExpr ::= AdditiveExpr:ae
{:
RESULT = ae;
:}

| RelationalExpr:re LT AdditiveExpr:ae
{:
RESULT = new RelationalExpr(Operators.LT, re, ae);
:}

| RelationalExpr:re GT AdditiveExpr:ae
{:
RESULT = new RelationalExpr(Operators.GT, re, ae);
:}

| RelationalExpr:re LE AdditiveExpr:ae
{:
RESULT = new RelationalExpr(Operators.LE, re, ae);
:}
RelationalExpr::re GE AdditiveExpr::ae
{ RESULT = new RelationalExpr(Operators.GE, re, ae); }

AdditiveExpr ::= MultiplicativeExpr::me
{ RESULT = me; }

AdditiveExpr::ae PLUS MultiplicativeExpr::me
{ RESULT = new BinOpExpr(BinOpExpr.PLUS, ae, me); }

AdditiveExpr::ae MINUS MultiplicativeExpr::me
{ RESULT = new BinOpExpr(BinOpExpr.MINUS, ae, me); }

MultiplicativeExpr ::= UnaryExpr::ue
{ RESULT = ue; }

MultiplicativeExpr::me MULT UnaryExpr::ue
{ RESULT = new BinOpExpr(BinOpExpr.TIMES, me, ue); }

MultiplicativeExpr::me DIV UnaryExpr::ue
{ RESULT = new BinOpExpr(BinOpExpr.DIV, me, ue); }

MultiplicativeExpr::me MOD UnaryExpr::ue
{ RESULT = new BinOpExpr(BinOpExpr.MOD, me, ue); }

UnaryExpr ::= UnionExpr::ue
{ RESULT = ue; }

MINUS UnaryExpr::ue
{ RESULT = new UnaryOpExpr(ue); }

UnionExpr ::= PathExpr::pe
{ RESULT = pe; }

PathExpr::pe VBAR UnionExpr::rest
{ RESULT = new UnionPathExpr(pe, rest); }

PathExpr ::= LocationPath::lp
{ RESULT = lp; }

FilterExpr::fexp
{ RESULT = fexp; }

FilterExpr::fexp SLASH RelativeLocationPath::rlp
{ RESULT = new FilterParentPath(fexp, rlp); }

FilterExpr::fexp DSLASH RelativeLocationPath::rlp
{ //

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int nodeType = DOM.NO_TYPE;
if (rlp instanceof Step &&
    parser.isElementAxis(((Step) rlp).getAxis()))
{
    nodeType = DTM.ELEMENT_NODE;
}
final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
FilterParentPath fpp = new FilterParentPath(fexp, step);
fpp = new FilterParentPath(fpp, rlp);
if (fexp instanceof KeyCall == false) {
    fpp.setDescendantAxis();
}
RESULT = fpp;
}

LocationPath ::= RelativeLocationPath:rlp
{ : RESULT = rlp; : }
| AbsoluteLocationPath:alp
{ : RESULT = alp; : };

RelativeLocationPath ::= Step:step
{ : RESULT = step; : }
| RelativeLocationPath:rlp SLASH Step:step
{ :
if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
    RESULT = step; // Remove '.' from the middle
}
else if (((Step) step).isAbbreviatedDot()) {
    RESULT = rlp; // Remove 'l.' from the end
}
else {
    RESULT =
    new ParentLocationPath((RelativeLocationPath) rlp, step);
}
}:
| AbbreviatedRelativeLocationPath:arlp
{ : RESULT = arlp; : };

AbsoluteLocationPath ::= SLASH
{ : RESULT = new AbsoluteLocationPath(); : }
| SLASH RelativeLocationPath:rlp
{ : RESULT = new AbsoluteLocationPath(rlp); : }

| AbbreviatedAbsoluteLocationPath: aalp
| { : RESULT = aalp; : }

AbbreviatedRelativeLocationPath ::= RelativeLocationPath: rlp DSLASH Step: step

{ :
final Step right = (Step) step;
final int axis = right.getAxis();
final int type = right.getNodeType();
final Vector predicates = right.getPredicates();

if ((axis == Axis.CHILD) && (type != NodeTest.ATTRIBUTE)) {
    // Compress '/child:E' into 'descendant::E' - if possible
    if (predicates == null) {
        right.setAxis(Axis.DESCENDANT);
        if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
            RESULT = right;
        }
    } else {
        // Expand 'rlp//child::E' into 'rlp/descendant::E'
        RelativeLocationPath left = (RelativeLocationPath) rlp;
        RESULT = new ParentLocationPath(left, right);
    }
} else {
    // Expand './step' -> 'descendant-or-self::*/step'
    if (rlp instanceof Step && ((Step) rlp).isAbbreviatedDot()) {
        Step left = new Step(Axis.DESCENDANTORSELF,
            DTM.ELEMENT_NODE, null);
        RESULT = new ParentLocationPath(left, right);
    } else {
        // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
        RelativeLocationPath left = (RelativeLocationPath) rlp;
        Step mid = new Step(Axis.DESCENDANTORSELF,
            DTM.ELEMENT_NODE, null);
        ParentLocationPath ppl = new ParentLocationPath(mid, right);
        RESULT = new ParentLocationPath(left, ppl);
    }
}
else if ((axis == Axis.ATTRIBUTE) || (type == NodeTest.ATTRIBUTE)) {
    // Expand 'rlp//step' -> 'rlp/descendant-or-self::*/step'
    RelativeLocationPath left = (RelativeLocationPath) rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DTM.ELEMENT_NODE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    }
RESULT = new ParentLocationPath(left, ppl);
}
else {
    // Expand 'rlp/step' -> 'rlp/descendant-or-self::node()/step'
    RelativeLocationPath left = (RelativeLocationPath)rlp;
    Step middle = new Step(Axis.DESCENDANTORSELF,
        DOM.NO_TYPE, null);
    ParentLocationPath ppl = new ParentLocationPath(middle, right);
    RESULT = new ParentLocationPath(left, ppl);
};

AbbreviatedAbsoluteLocationPath ::= DSLASH RelativeLocationPath:rlp
    {:
        // Expand '// into '/descendant-or-self::node()/' or
        // into /descendant-or-self::*/
        //
        int nodeType = DOM.NO_TYPE;
        if (rlp instanceof Step &&
            parser.isElementAxis(((Step) rlp).getAxis()))
        {
            nodeType = DTM.ELEMENT_NODE;
        }
        final Step step = new Step(Axis.DESCENDANTORSELF, nodeType, null);
        RESULT = new AbsoluteLocationPath(parser.insertStep(step,
            (RelativeLocationPath) rlp));
    :
}

Step ::= NodeTest:ntest
    {:
        if (ntest instanceof Step) {
            RESULT = (Step)ntest;
        }
        else {
            RESULT = new Step(Axis.CHILD,
                parser.findNodeType(Axis.CHILD, ntest),
                null);
        }
    :
}

| NodeTest:ntest Predicates:pp
{:
    if (ntest instanceof Step) {
        Step step = (Step)ntest;
        step.addPredicates(pp);
        RESULT = (Step)ntest;
    }
}
else {
    RESULT = new Step(Axis.CHILD,
                        parser.findNodeType(Axis.CHILD, ntest), pp);
}
:

| AxisSpecifier:axis NodeTest:ntest Predicates:pp |
| : RESULT = new Step(axis.intValue(),
                       parser.findNodeType(axis.intValue(), ntest),
                       pp); |
| AbbreviatedStep:abbrev |
| : RESULT = abbrev; : |

AxisSpecifier ::= AxisName:an DCOLON |
| : RESULT = an; : |

| ATSIGN |
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

AxisName ::= ANCESTOR |
| : RESULT = new Integer(Axis.ANCESTOR); : |

| ANCESTORORSELF |
| : RESULT = new Integer(Axis.ANCESTORORSELF); : |

| ATTRIBUTE |
| : RESULT = new Integer(Axis.ATTRIBUTE); : |

| CHILD |
| : RESULT = new Integer(Axis.CHILD); : |

| DESCENDANT |
| : RESULT = new Integer(Axis.DESCENDANT); : |

| DESCENDANTORSELF |
| : RESULT = new Integer(Axis.DESCENDANTORSELF); : |

| FOLLOWING |
| : RESULT = new Integer(Axis.FOLLOWING); : |
| FOLLOWINGSIBLING
| : RESULT = new Integer(Axis.FOLLOWINGSIBLING); : |

| NAMESPACE
| : RESULT = new Integer(Axis.NAMESPACE); : |

| PARENT
| : RESULT = new Integer(Axis.PARENT); : |

| PRECEDING
| : RESULT = new Integer(Axis.PRECEDING); : |

| PRECEDINGSIBLING
| : RESULT = new Integer(Axis.PRECEDINGSIBLING); : |

| SELF
| : RESULT = new Integer(Axis.SELF); : |

AbbreviatedStep ::= DOT
| : RESULT = new Step(Axis.SELF, NodeTest.ANODE, null); : |

| DDOT
| : RESULT = new Step(Axis.PARENT, NodeTest.ANODE, null); : |

FilterExpr ::= PrimaryExpr:primary
| : RESULT = primary; : |

| PrimaryExpr:primary Predicates:pp
| : RESULT = new FilterExpr(primary, pp); : |

PrimaryExpr ::= VariableReference:vr
| : RESULT = vr; : |

| LPAREN Expr:ex RPAREN
| : RESULT = ex; : |

| Literal:string
| : */
* If the string appears to have the syntax of a QName, store
* namespace info in the literal expression. This is used for
* element-available and function-available functions, among
* others. Also, the default namespace must be ignored.
*/
String namespace = null;
final int index = string.lastIndexOf(':');
if (index > 0) {
    final String prefix = string.substring(0, index);
    namespace = parser._symbolTable.lookupNamespace(prefix);
}
RESULT = (namespace == null) ? new LiteralExpr(string)
    : new LiteralExpr(string, namespace);
}

| INT:num
{: long value = num.longValue();
  if (value < Integer.MIN_VALUE || value > Integer.MAX_VALUE) {
    RESULT = new RealExpr(value);
  }
  else {
    if (num.doubleValue() == -0)
      RESULT = new RealExpr(num.doubleValue());
    else if (num.intValue() == 0)
      RESULT = new IntExpr(num.intValue());
    else if (num.doubleValue() == 0.0)
      RESULT = new RealExpr(num.doubleValue());
    else
      RESULT = new IntExpr(num.intValue());
  }
}

| REAL:num
{: RESULT = new RealExpr(num.doubleValue()); :}

| FunctionCall:fc
{: RESULT = fc; :};

VariableReference ::= DOLLAR VariableName:varName
{: // An empty qname prefix for a variable or parameter reference
   // should map to the null namespace and not the default URI.
   SyntaxTreeNode node = parser.lookupName(varName);
   if (node != null) {
     if (node instanceof Variable) {
       RESULT = new VariableRef((Variable)node);
     }
     else if (node instanceof Param) {
       RESULT = new ParameterRef((Param)node);
     }
     else {
       RESULT = new UnresolvedRef(varName);
     }
   }
}
if (node == null) {
    RESULT = new UnresolvedRef(varName);
}
;

FunctionCall ::= FunctionName:fname LPAREN RPAREN
{
    if (parser.getQNameIgnoreDefaultNs("current").equals(fname)) {
        RESULT = new CurrentCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) {
        RESULT = new NumberCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) {
        RESULT = new StringCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) {
        RESULT = new ConcatCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("true").equals(fname)) {
        RESULT = new BooleanExpr(true);
    }
    else if (parser.getQNameIgnoreDefaultNs("false").equals(fname)) {
        RESULT = new BooleanExpr(false);
    }
    else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) {
        RESULT = new NameCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) {
        RESULT = new GenerateIdCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
        RESULT = new StringLengthCall(fname, parser.EmptyArgs);
    }
    else if (parser.getQNameIgnoreDefaultNs("position").equals(fname)) {
        RESULT = new PositionCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("last").equals(fname)) {
        RESULT = new LastCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
        RESULT = new LocalNameCall(fname);
    }
    else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
        RESULT = new NamespaceUriCall(fname);
    }
}
else {
    RESULT = new FunctionCall(fname, parser.EmptyArgs);
}

}

<table>
<thead>
<tr>
<th>FunctionName</th>
<th>fname LPAREN NonemptyArgumentList:argl RPAREN</th>
</tr>
</thead>
</table>
| :          | if (parser.getQNameIgnoreDefaultNs("concat").equals(fname)) { 
|            |     RESULT = new ConcatCall(fname, argl);
|            | } 
| else if | if (parser.getQNameIgnoreDefaultNs("number").equals(fname)) { 
|            |     RESULT = new NumberCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("document").equals(fname)) { 
|            |     parser.setMultiDocument(true);
|            |     RESULT = new DocumentCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("string").equals(fname)) { 
|            |     RESULT = new StringCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("boolean").equals(fname)) { 
|            |     RESULT = new BooleanCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("name").equals(fname)) { 
|            |     RESULT = new NameCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("generate-id").equals(fname)) { 
|            |     RESULT = new GenerateIdCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("not").equals(fname)) { 
|            |     RESULT = new NotCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("format-number").equals(fname)) { 
|            |     RESULT = new FormatNumberCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("unparsed-entity-uri").equals(fname)) { 
|            |     RESULT = new UnparsedEntityUriCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("key").equals(fname)) { 
|            |     RESULT = new KeyCall(fname, argl);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("id").equals(fname)) { 
|            |     RESULT = new KeyCall(fname, argl);
|            |     parser.setIdCall(true);
|            | } 
| else if | else if (parser.getQNameIgnoreDefaultNs("ceiling").equals(fname)) { 
|            |     RESULT = new CeilingCall(fname, argl); 
|            | } 
| :          | 
|             |}
else if (parser.getQNameIgnoreDefaultNs("round").equals(fname)) {
    RESULT = new RoundCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("floor").equals(fname)) {
    RESULT = new FloorCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("contains").equals(fname)) {
    RESULT = new ContainsCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("string-length").equals(fname)) {
    RESULT = new StringLengthCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("starts-with").equals(fname)) {
    RESULT = new StartsWithCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("function-available").equals(fname)) {
    RESULT = new FunctionAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("element-available").equals(fname)) {
    RESULT = new ElementAvailableCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("local-name").equals(fname)) {
    RESULT = new LocalNameCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("lang").equals(fname)) {
    RESULT = new LangCall(fname, argl);
}

else if (parser.getQNameIgnoreDefaultNs("namespace-uri").equals(fname)) {
    RESULT = new NamespaceUriCall(fname, argl);
}

else if (parser.getQName(Constants.TRANSLET_URI, "xsltc", "cast").equals(fname)) {
    RESULT = new CastCall(fname, argl);
}

// Special case for extension function nodeset()
else if (fname.getLocalPart().equals("nodeset") || fname.getLocalPart().equals("node-set")) {
    parser.setCallsNodeset(true);  // implies MultiDOM
    RESULT = new FunctionCall(fname, argl);
}

else {
    RESULT = new FunctionCall(fname, argl);
}
:

NonemptyArgumentList ::= Argument:arg

};

Vector temp = new Vector();
temp.addElement(arg);
RESULT = temp;
::

| Argument:arg COMMA NonemptyArgumentList:argl
| : argl.insertElementAt(arg, 0); RESULT = argl; ::;

FunctionName ::= QName:fname
    {: RESULT = fname; ::;

VariableName ::= QName:vname
    {: RESULT = vname; ::;

Argument ::= Expr:ex
    {: RESULT = ex; ::;

NodeTest ::= NameTest:nt
    {: RESULT = nt; ::

| NODE
| { RESULT = new Integer(NodeTest.ANODE); ::

| TEXT
| { RESULT = new Integer(NodeTest.TEXT); ::

| COMMENT
| { RESULT = new Integer(NodeTest.COMMENT); ::

| PIPARAM LPAREN Literal:l RPAREN
| {:
QName name = parser.getQNameIgnoreDefaultNs("name");
Expression exp = new EqualityExpr(Operators.EQ,
    new NameCall(name),
    new LiteralExpr(l));
Vector predicates = new Vector();
predicates.addElement(new Predicate(exp));
RESULT = new Step(Axis.CHILD, NodeTest.PI, predicates);
::

| PI
| { RESULT = new Integer(NodeTest.PI); ::;

NameTest ::= STAR
    {: RESULT = null; ::}
QName ::= QNAME:qname
{| :: RESULT = parser.getQNameIgnoreDefaultNs(qname); : |

| DIV
{| :: RESULT = parser.getQNameIgnoreDefaultNs("div"); : |

| MOD
{| :: RESULT = parser.getQNameIgnoreDefaultNs("mod"); : |

| KEY
{| :: RESULT = parser.getQNameIgnoreDefaultNs("key"); : |

| ANCESTOR
{| :: RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| ANCESTORORSELF
{| :: RESULT = parser.getQNameIgnoreDefaultNs("ancestor-or-self"); : |

| ATTRIBUTE
{| :: RESULT = parser.getQNameIgnoreDefaultNs("attribute"); : |

| CHILD
{| :: RESULT = parser.getQNameIgnoreDefaultNs("child"); : |

| DESCENDANT
{| :: RESULT = parser.getQNameIgnoreDefaultNs("descendant"); : |

| DESCENDANTORSELF
{| :: RESULT = parser.getQNameIgnoreDefaultNs("descendant-or-self"); : |

| FOLLOWING
{| :: RESULT = parser.getQNameIgnoreDefaultNs("following"); : |

| FOLLOWINGSIBLING
{| :: RESULT = parser.getQNameIgnoreDefaultNs("following-sibling"); : |

| NAMESPACE
{| :: RESULT = parser.getQNameIgnoreDefaultNs("namespace"); : |

| PARENT
{| :: RESULT = parser.getQNameIgnoreDefaultNs("parent"); : |

| PRECEDING
{| :: RESULT = parser.getQNameIgnoreDefaultNs("preceding"); : |}
Found in path(s):
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/xpath.cup
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 */
// is found, then throw a special exception in order to terminate

Found in path(s):
*/opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/TransformerFactoryImpl.java
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Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/domapi/XPathStylesheetDOM3Exception.java
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 */

/*
 * Execute the proprietary document-location() function, which returns
 * a node set of documents.
 * @xsl.usage advanced
 */

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/functions/FuncDoclocation.java
No license file was found, but licenses were detected in source scan.

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
package org.apache.xalan.xslt.compiler;

import java_cup.runtime.Symbol;

%%
%cup
%unicode
%class XPathLexer
%yyeof
%

int last;

void initialize() {
    last = -1;
}

static boolean isWhitespace(int c) {
    return (c == ' ' || c == '	' || c == '' || c == '
'  || c == '');
}

/**
 * If symbol is not followed by `::` or `('), then treat it as a
 * name instead of an axis or function (Jira-1912).
 */
Symbol disambiguateAxisOrFunction(int ss) throws Exception {
    // Peek in the input buffer without changing the internal state
    int index = yy_buffer_index;

    // Skip whitespace
    while (index < yy_buffer_read && isWhitespace(yy_buffer[index])) {
        index++;
    }

    // If end of buffer, can't disambiguate :(

if (index >= yy_buffer_read) {
    // Can't disambiguate, so return as symbol
    return new Symbol(ss);
}

// Return symbol if next token is ':' or '('
return (yy_buffer[index] == ':' && yy_buffer[index+1] == ':') || yy_buffer[index] == '(' ?
    newSymbol(ss) : newSymbol(sym.QNAME, yytext());
}

/**
 * If symbol is first token if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a
 * name instead of a keyword (Jira-1912).
 */
Symbol disambiguateOperator(int ss) throws Exception {
    switch (last) {
    case -1:    // first token
    case sym.ATSIGN:
    case sym.DCOLON:
    case sym.LPAREN:
    case sym.LBRACK:
    case sym.COMMA:
    case sym.AND:
    case sym.OR:
    case sym.MOD:
    case sym.DIV:
    case sym.MULT:
    case sym.SLASH:
    case sym.DSLASH:
    case sym.VBAR:
    case sym.PLUS:
    case sym.MINUS:
    case sym.EQ:
    case sym.NE:
    case sym.LT:
    case sym.LE:
    case sym.GT:
    case sym.GE:
        return newSymbol(sym.QNAME, yytext());
    }
    return newSymbol(ss);
}

/**
 * If symbol is first token if it follows any of the operators
 * listed in http://www.w3.org/TR/xpath#exprlex then treat as a

Symbol disambiguateStar() throws Exception {
    switch (last) {
    case -1: // first token
        case sym.ATSIGN:
        case sym.DCOLOM:
        case sym.LPAREN:
        case sym.LBRACK:
        case sym.COMMA:
        case sym.AND:
        case sym.OR:
        case sym.MOD:
        case sym.DIV:
        case sym.MUL:
        case sym.SLASH:
        case sym.DSLSH:
        case sym.VBAR:
        case sym.PLUS:
        case sym.MINUS:
        case sym.EQ:
        case sym.NE:
        case sym.LT:
        case sym.LE:
        case sym.GT:
        case sym.GE:
            return newSymbol(sym.STAR);
        }
    return newSymbol(sym.MULT);
}

Symbol newSymbol(int ss) {
    last = ss;
    return new Symbol(ss);
}

Symbol newSymbol(int ss, String value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Long value) {
    last = ss;
    return new Symbol(ss, value);
}

Symbol newSymbol(int ss, Double value) {
    last = ss;
}
return new Symbol(ss, value);
}
%}
%eofval{
return newSymbol(sym.EOF);
%eofval}
%yylexthrow{
Exception
%yylexthrow}
Letter={BaseChar}|{Ideographic}
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CombiningChar=[\u0300-\u0345\u0360-\u0361\u0483-\u0486\u0591-\u05A1\u05A3-\u05B9\u05BB\u05BD\u05BF\u05C1-\u05C2\u05C4\u064B-\u0652\u0670\u06D6-\u06DC\u06DD-\u06DF\u06E0-\u06E4\u06E7\u06E8\u06EA-\u06ED\u0901-\u0903\u093C\u093E-\u094C\u094D\u0951-\u0954\u0962-\u0963\u0981\u0983\u09BC\u09BE\u09BF\u09C0-\u09C4\u09C7-\u09C8\u09CB-\u09CD\u09D7\u09E2-

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"=" [ return newSymbol(sym.GE); ]
"id" [ return disambiguateAxisOrFunction(sym.ID); ]
"key" [ return disambiguateAxisOrFunction(sym.KEY); ]
"text()" [ return newSymbol(sym.TEXT); ]
"text" + [ \\n\t"] + "()" [ return newSymbol(sym.TEXT); ]
"node()" [ return newSymbol(sym.NODE); ]
"node" + [ \\n\t"] + "()" [ return newSymbol(sym.NODE); ]
"comment()" [ return newSymbol(sym.COMMENT); ]
"comment" + [ \\n\t"] + "()" [ return newSymbol(sym.COMMENT); ]
"processing-instruction()" [ return newSymbol(sym.PI); ]
"processing-instruction" + [ \\n\t"] + "()" [ return newSymbol(sym.PI); ]
"or" [ return disambiguateOperator(sym.OR); ]
"and" [ return disambiguateOperator(sym.AND); ]
"child" [ return disambiguateAxisOrFunction(sym.CHILD); ]
"attribute" [ return disambiguateAxisOrFunction(sym.ATTRIBUTE); ]
"ancestor" [ return disambiguateAxisOrFunction(sym.ANCESTOR); ]
"ancestor-or-self" [ return disambiguateAxisOrFunction(sym.ANCESTORORSELF); ]
"descendant" [ return disambiguateAxisOrFunction(sym.DESCENDANT); ]
"descendant-or-self" [ return disambiguateAxisOrFunction(sym.DESCENDANTORSELF); ]
"following" [ return disambiguateAxisOrFunction(sym.FOLLOWING); ]
"following-sibling" [ return disambiguateAxisOrFunction(sym.FOLLOWINGSIBLING); ]
"namespace" [ return disambiguateAxisOrFunction(sym.NAMESPACE); ]
"parent" [ return disambiguateAxisOrFunction(sym.PARENT); ]
"preceding" [ return disambiguateAxisOrFunction(sym.PRECEDING); ]
"preceding-sibling" [ return disambiguateAxisOrFunction(sym.PRECEDINGSIBLING); ]
"self" [ return disambiguateAxisOrFunction(sym.SELF); ]
"[" [ return newSymbol(sym.LBRACK); ]
"[" [ return newSymbol(sym.RBRACK); ]
"(" [ return newSymbol(sym.LPAREN); ]
")" [ return newSymbol(sym.RPAREN); ]
"<PATTERN>" initialize(); return new Symbol(sym.PATTERN); ]
"<EXPRESSION>" initialize(); return new Symbol(sym.EXPRESSION); ]
"[^\^n]" [ return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); ]
"[^\^n]*" [ return newSymbol(sym.Literal, yytext().substring(1, yytext().length() - 1)); ]
[Digit]+ [ return newSymbol(sym.INT, new Long(yytext())); ]
[Digit] + "." [Digit] + "[ return newSymbol(sym.REAL, new Double(yytext())); ]
"[\s]+[Digit] + "." [Digit] + "[ return newSymbol(sym.REAL, new Double(yytext())); ]
\s+ [ return newSymbol(sym.DOT); ]
{NCName} + "?" [NCName] [ return newSymbol(sym.QNAME, yytext()); ]
{NCName} + "@" [ return newSymbol(sym.QNAME, yytext()); ]
{NCName} + "@" [ return newSymbol(sym.QNAME, yytext()); ]
[ \r\n\t"] [ /* ignore white space. */ ]
. [ throw new Exception(yytext()); ]

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*/

/*
* $Id: XSLProcessorVersion.src 468640 2006-10-28 06:53:53Z minchau $
*/
package org.apache.xalan.processor;

/**
* Administrative class to keep track of the version number of
* the Xalan release.
*<p>See also: org/apache/xalan/res/XSLTInfo.properties</p>
* @deprecated To be replaced by org.apache.xalan.Version.getVersion()
* @xsl.usage general
*/
public class XSLProcessorVersion
{

/**
* Print the processor version to the command line.
* @param argv command line arguments, unused.
*/
public static void main(String argv[])
{
    System.out.println(S_VERSION);
}

/**
* Constant name of product.
*/
public static final String PRODUCT = "Xalan";

public static final String LANGUAGE = "Java";

public static final int VERSION = @version.VERSION@;

public static final int RELEASE = @version.RELEASE@;

public static final int MAINTENANCE = @version.MINOR@;

public static final int DEVELOPMENT = @version.DEVELOPMENT@;
Development drops are works in progress towards a completed, final release. A specific development drop may not completely implement all aspects of a new feature, which may take several development drops to complete. At the point of the final drop for the release, the D suffix will be omitted.

Each 'D' drops can contain functional enhancements as well as defect fixes. 'D' drops may not be as stable as the final releases.

```
public static final int DEVELOPMENT = 0;
```

```
/**
 * Version String like <CODE>"<B>Xalan</B> <B>Language</B> v.r[.dd] <B>D</B><B>n</B>"</CODE>
 * Semantics of the version string are identical to the Xerces project.
 */
```

```
public static final String S_VERSION = PRODUCT + " +LANGUAGE + " +VERSION + "." +RELEASE + "."
 + (DEVELOPMENT > 0 ? ("D" + DEVELOPMENT)
 : ("" + MAINTENANCE));
```
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/processor/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/compiler/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/patterns/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/package.html
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/package.html

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*/

// Proprietary, built in functions
/** current function string (Proprietary). */
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 */

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/compiler/Keywords.java

Found in path(s):
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/transformer/QueuedEvents.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/compiler/XslAttribute.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/dtm/ref/NodeLocator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xml/serializer/ToStream.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/xsltc/dom/KeyIndex.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xalan/templates/ElemForEach.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/patterns/ContextMatchStepPattern.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/res/XPATHErrorResources_zh.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xpath/functions/FuncBoolean.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xsltc/compiler/NodeSetType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources.jar/org/apache/xsltc/compiler/CurrentCall.java
None
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/ deactivate/ElemText.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/Departures/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/deactivate/FilterParentPath.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/deactivate/Sort.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/deactivate/util/RealType.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/res/XPATHErrorResources_pt_BR.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/res/XSLTErrorResources_tr.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResourceBundleBase.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Key.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_cy.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/functions/FuncId.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/ContainsCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/res/XMLErrorResources_zh_TW.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemPI.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ko.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/NodeSortRecord.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/XNodeSetForDOM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/ErrorMessages_ca.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/res/XResources_ko.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/ListingErrorHandler.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/FuncDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Bool.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/UseAttributeSets.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/trace/GenerateEvent.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/client/XSLTProcessorApplet.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/FormatNumberCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/transformer/Counter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/XMLStringFactory.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/dom/DOMAdapter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/util/MatchGenerator.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/FilteredStepIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/RelationalExpr.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_it.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/NodeSetDTM.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/templates/ElemSort.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/runtime/AttributeList.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/utils/StringVector.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/operations/Number.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/PipeDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/TypeCheckError.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/lib/sql/SQLDocument.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/res/XPATHErrorResources_cs.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/StepIterator.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/trax/TemplatesHandlerImpl.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/serializer/XSLOutputAttributes.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Text.java

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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/runtime/ErrorMsgMessages_es.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xslt/compiler/util/ErrorMsgMessages_hu.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/Message.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LocalNameCall.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/SecuritySupport.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/compiler/LocalNameCall.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMManager.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/trax/DOM2TO.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xml/utils/res/XResources_el.java
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* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/VariableStack.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xml/dtm/DTMWSFilter.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xpath/axes/FilterExprIteratorSimple.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/res/XSLTErrrorResources_zh_CN.java
* /opt/cola/permits/1134796662_1613422294.09/0/xalan-2-7-2-sources-jar/org/apache/xalan/xsltc/dom/ValuedNodeHeapIterator.java
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1.538 containers-image 5.12.0

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io.helidon.config.yaml.internal.YamlConfigParser

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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

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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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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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1.555 mikefarah-yq 3.4.1

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Ackeret, Matt
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Simon, Thor Lancelot
Slemko, Marc
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Soulen, Steven
The following people have worked to translate sudo into other languages as part of the Translation Project, see https://translationproject.org for more details.

Albuquerque, Pedro
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Diguez, Francisco
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The following people designed the artwork used on the sudo website:

- Shield logo: Badger, Trent
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1.557 prometheus-procfs 0.0.3

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*/opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-
jar/org/ehcache/jsr107/Eh107Configuration.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/Eh107CacheManager.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/internal/DefaultJsr107Service.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/DefaultConfigurationResolver.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/Eh107ReverseConfiguration.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/EventListenerAdaptors.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/config/package-info.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/CloseUtil.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/Eh107CacheLoaderWriter.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/Eh107CacheLoaderWriterProvider.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/package-info.java
* /opt/cola/permits/1135872828_1613621005.88/0/ehcache-107-3-8-1-sources-1-jar/org/ehcache/jsr107/CacheResources.java
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*/
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*/
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* /opt/cola/permits/1200967102_1631037405.44/0/spring-security-web-5-4-2-sources-3-
jar/org/springframework/security/web/authentication/ForwardAuthenticationSuccessHandler.java
* /opt/cola/permits/1200967102_1631037405.44/0/spring-security-web-5-4-2-sources-3-
jar/org/springframework/security/web/authentication/ui/DefaultLogoutPageGeneratingFilter.java
* /opt/cola/permits/1200967102_1631037405.44/0/spring-security-web-5-4-2-sources-3-
jar/org/springframework/security/web/authentication/HttpStatusServerEntryPoint.java
* /opt/cola/permits/1200967102_1631037405.44/0/spring-security-web-5-4-2-sources-3-
jar/org/springframework/security/web/server/authentication/logout/CompositeLogoutHandler.java
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* /opt/cola/permits/1200967102_1631037405.44/0/spring-security-web-5-4-2-sources-3-
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jar/org/springframework/security/web/server/StaticServerHttpHeadersWriter.java
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  jar/org/springframework/security/web/util/matcher/ELRequestMatcher.java
* /opt/sha/permits/1200967102_1631037405.44/0/spring-security-web-5-4-2-sources-3-
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* /opt/cola/permits/1200967102_1631037405.44/0/spring-security-web-5-4-2-sources-3-
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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
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ASN.1 library for Python
------------------------

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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`):

```
>>> 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.

```
>>> 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.

```
>>> 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)
>>> hexdump(substrate)
```
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 [repo](https://github.com/etingof/pyasn1-modules).

How to get pyasn1
-----------------

The pyasn1 package is distributed under terms and conditions of 2-clause BSD [license](http://snmplabs.com/pyasn1/license.html). Source code is freely available as a GitHub [repo](https://github.com/etingof/pyasn1).

You could `pip install pyasn1` or download it from [PyPI](https://pypi.org/project/pyasn1).
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/codec/ber/__main__.py
* /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
* /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/pyasn1/compat/integer.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1/codec/ber/encoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1_TYPE嘴巴/type/constraint.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/pyasn1_TYPE嘴巴/type/error.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/setup.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/codec/der/decoder.py
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/tests/type/test_tag.py
Abstract Syntax Notation One (ASN.1) <http://en.wikipedia.org/wiki/Abstract_Syntax_Notation_1x> is a technology for exchanging structured data in a universally understood, hardware agnostic way. Many industrial, security and telephony

No license file was found, but licenses were detected in source scan.
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/protobuf>`_ 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 `<http://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=ASN.1>`_ 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.

.. toctree::
   :maxdepth: 1

/changelog

License
-------

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.. toctree::
   :maxdepth: 2

/license

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/asn1/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.

Found in path(s):
* /opt/cola/permits/1110812511_1607462013.57/0/pyasn1-0.4.8-tar-gz/pyasn1-0.4.8/docs/source/contents.rst

1.568 jakarta-annotation-api 1.3.5

1.568.1 Available under license:

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// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device.proto

package cwztpsvc // import "github.com/cisco.com/ROBOT/robot-api/golang/cwztpsvc"

import proto "github.com/golang/gol proto" import fmt "fmt" import math "math"
import _ "github.com/google.golang.org/genproto/googleapis/api/annotations"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

type ZtpLicenseDevice struct {
    DeviceSerialNumber string `protobuf:"bytes,1,opt
name=deviceSerialNumber,proto3"
    json:"deviceSerialNumber,
omitempty"
    XXX_NoUnkeyedLiteral struct{} `json:"-"
    XXX_unrecognized []byte `json:"-"
    XXX_sizecache int32 `json:"-"
}

func (m *ZtpLicenseDevice) Reset() {
    *m = ZtpLicenseDevice{
}
}
func (m *ZtpLicenseDevice) String() string {
    return proto.CompactTextString(m)
}
func (*ZtpLicenseDevice) ProtoMessage() {
}
func (*ZtpLicenseDevice) Descriptor() ([]byte, []int) {
    return fileDescriptor_cw_ztp_license_device_e27237926d594488, []int{0}
}
func (m *ZtpLicenseDevice) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDevice.Unmarshal(m, b)
}
func (m *ZtpLicenseDevice) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDevice.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDevice) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDevice.Merge(dst, src)
}
func (m *ZtpLicenseDevice) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDevice.Size(m)
}
func (m *ZtpLicenseDevice) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDevice.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDevice proto.InternalMessageInfo

func (m *ZtpLicenseDevice) GetDeviceSerialNumber() string {
    if m != nil {
        return m.DeviceSerialNumber
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDevice)(nil), "cwztpsvc.ZtpLicenseDevice")
}

func init() {
    proto.RegisterFile("cw_ztp_license_device.proto", fileDescriptor_cw_ztp_license_device_e27237926d594488)
}

var fileDescriptor_cw_ztp_license_device_e27237926d594488 = []byte{
    // 201 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x6c, 0xce, 0x31, 0x4b, 0xc7, 0x30,
    0x10, 0x05, 0x70, 0xba, 0x88, 0x66, 0x92, 0x2e, 0x8a, 0x8a, 0x88, 0x93, 0x8b, 0x09, 0x8b, 0xf2, 0xff,
    0x06, 0x51, 0x0f, 0x9f, 0x08, 0x5d, 0x0a, 0x72, 0x86, 0x18, 0x48, 0x73, 0x21, 0xb9, 0xb9, 0x5f,
    0x28, 0x66, 0xda, 0x81, 0x09, 0x8d, 0xf4, 0x5f, 0x66, 0x72, 0x60, 0x78, 0x4c, 0x48, 0x58, 0x9f,
    0x4c, 0xb2, 0x05, 0x5c, 0x94, 0xc7, 0x0f, 0xb1, 0x8f,
    0xeb, 0x6a, 0x8b, 0x5e, 0x05, 0x2b, 0x76, 0x4d, 0x9f, 0x6c, 0xf4, 0xe4, 0xe7, 0x2a, 0x96, 0xc2, 0x01, 0x01, 0x00, 0x00,
}

// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license.proto

package cwztpsvc // import "github3.cisco.com/ROBOT/robot-api/golang/cwztpsvc"

import proto "github.com/golang/protobuf/proto"
import fmt "fmt"
import math "math"
import _ "google.golang.org/genproto/googleapis/api/annotations"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

type ZtpLicense struct {
    Id                   int32    `protobuf:"varint,1,opt,name=id,proto3" json:"id,omitempty"`
    Status               string   `protobuf:"bytes,2,opt,name=status,proto3" json:"status,omitempty"`
    LastUpdated          int64    `protobuf:"varint,3,opt,name=lastUpdated,proto3" json:"lastUpdated,omitempty"`
    XXX_NoUnkeyedLiteral struct{} `json:"-"
    XXX_unrecognized     []byte   `json:"-"
    XXX_sizecache        int32    `json:"-"
}

func (m *ZtpLicense) Reset() { *m = ZtpLicense{} }
func (m *ZtpLicense) String() string { return proto.CompactTextString(m) }
func (*ZtpLicense) ProtoMessage() {}
func (*ZtpLicense) Descriptor() ([]byte, []int) {
    return fileDescriptor_cw_ztp_license_f6745968de738545, []int{0}
}
func (m *ZtpLicense) XXX.Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicense.Unmarshal(m, b)
}
func (m *ZtpLicense) XXX.Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicense.Marshal(b, m, deterministic)
}
func (dst *ZtpLicense) XXX.Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicense.Merge(dst, src)
}
func (m *ZtpLicense) XXX.Size() int {
    return xxx_messageInfo_ZtpLicense.Size(m)
}
func (m *ZtpLicense) XXX.DiscardUnknown() {
    xxx_messageInfo_ZtpLicense.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicense proto.InternalMessageInfo

func (m *ZtpLicense) GetId() int32 {
    if m != nil {
        return m.Id
    }
    return 0

func (m *ZtpLicense) GetStatus() string {
    if m != nil {
        return m.Status
    }
    return ""
}

func (m *ZtpLicense) GetLastUpdated() int64 {
    if m != nil {
        return m.LastUpdated
    }
    return 0
}

func init() {
    proto.RegisterType((*ZtpLicense)(nil), "cwztpsvc.ZtpLicense")
}

func init() {
    proto.RegisterFile("cw_ztp_license.proto", fileDescriptor_cw_ztp_license_f6745968de738545)
}

var fileDescriptor_cw_ztp_license_f6745968de738545 = []byte{
    // 222 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x4c, 0x8f, 0x4d, 0x4b, 0x03, 0x31,
    0x10, 0x86, 0xc9, 0x16, 0x8b, 0x46, 0x10, 0x5c, 0x44, 0x16, 0x11, 0x09, 0x9e, 0xf6, 0x62, 0x82,
    0xf4, 0x1f, 0xac, 0x57, 0xa1, 0x25, 0x8f, 0x01, 0xb8, 0x94, 0xec, 0x24, 0xa4, 0x81, 0x34, 0x13,
    0x9a, 0xa9, 0x85, 0xe0, 0x7a, 0x69, 0xb7, 0x8b, 0x1e, 0xe7, 0xe3, 0xe3, 0xe7, 0x9e, 0x19, 0x7e, 0x07,
    0xfb, 0xd5, 0x81, 0x02, 0x2a, 0x06, 0x70, 0x0a, 0x38, 0x38, 0x99, 0xb7, 0x48, 0x58, 0x5f, 0xc2, 0xe0,
    0x40, 0xb9, 0xfc, 0xc0, 0xc3, 0xa3, 0x47, 0xf4, 0xda, 0x29, 0x93, 0x83, 0x32, 0x29, 0x21, 0x19,
    0x0a, 0x9b, 0x8c, 0xb0, 0x7f, 0xf0, 0xc5, 0xe9, 0x92, 0xf2, 0xf0, 0x90, 0xad, 0x6f, 0x78, 0x15,
    0x6c, 0xc3, 0x04, 0x6b, 0x2f, 0x74, 0x15, 0x6c, 0x7d, 0xcf, 0xa7, 0x85, 0x0c, 0xed, 0x4a, 0x53,
    0x09, 0xd6, 0x5e, 0xe9, 0x73, 0x55, 0x0b, 0x7e, 0x1d, 0x4d, 0xa1, 0xcf, 0x6c, 0x0d, 0x39, 0xdb,
    0x4c, 0x04, 0x6b, 0x27, 0xfa, 0x7f, 0xba, 0xb, 0xf3, 0x27, 0xc0, 0x8d, 0x84, 0x50, 0x00, 0xe5,
    0x16, 0x7b, 0xa4, 0x41, 0x28, 0xc7, 0xbb, 0xba, 0xdb, 0xb7, 0xef, 0x3f, 0xf3, 0xe2, 0x38, 0x5b,
    0x0b, 0xe5, 0xa0, 0x0f, 0xb4, 0xe0, 0x5f, 0xb3, 0x73, 0x10, 0x70, 0xa3, 0x4f, 0xbc, 0x9b, 0x7f,
    0xa8, 0x13, 0xe2, 0x5f, 0x8f, 0x83, 0x7c, 0x68, 0x92, 0x57, 0xa7, 0x9f, 0x9e, 0xb8, 0xb3,
    0xdf, 0x00, 0x00, 0x00, 0xff, 0x8f, 0x46, 0x47, 0xa7, 0x44, 0x08, 0x01, 0x00, 0x00,
}

// Code generated by protoc-gen-go. DO NOT EDIT.
// source: cw_ztp_license_device_v2.proto

package cwztpsvc // import "github.com/ROBOT/robot-api/golang/cwztpsvc"

import proto "github.com/golang/protobuf/proto"
import fmt "fmt"
import math "math"

// Reference imports to suppress errors if they are not otherwise used.
var _ = proto.Marshal
var _ = fmt.Errorf
var _ = math.Inf

// This is a compile-time assertion to ensure that this generated file
// is compatible with the proto package it is being compiled against.
// A compilation error at this line likely means your copy of the
// proto package needs to be updated.
const _ = proto.ProtoPackageIsVersion2 // please upgrade the proto package

type ZtpLicenseDeviceV2 struct {
    Uuid string `protobuf:"bytes,1,opt,name=uuid,proto3" json:"uuid,omitempty"`
    SerialNumber []string `protobuf:"bytes,2,rep,name=serialNumber,proto3" json:"serialNumber,omitempty"`
    LocationId string `protobuf:"bytes,3,opt,name=locationId,proto3" json:"locationId,omitempty"`
    XXX_NoUnkeyedLiteral struct {} `json:"-"
    XXX_unrecognized []byte `json:"-"
    XXX_sizecache int32 `json:"-"
}

func (m *ZtpLicenseDeviceV2) Reset() { *m = ZtpLicenseDeviceV2{ } }
func (m *ZtpLicenseDeviceV2) String() string { return proto.CompactTextString(m) }
func (*ZtpLicenseDeviceV2) ProtoMessage() {}
func (*ZtpLicenseDeviceV2) Descriptor() ([]byte, []int) {
    return fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399, []int{0}
}
func (m *ZtpLicenseDeviceV2) XXX_Unmarshal(b []byte) error {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Unmarshal(m, b)
}
func (m *ZtpLicenseDeviceV2) XXX_Marshal(b []byte, deterministic bool) ([]byte, error) {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Marshal(b, m, deterministic)
}
func (dst *ZtpLicenseDeviceV2) XXX_Merge(src proto.Message) {
    xxx_messageInfo_ZtpLicenseDeviceV2.Merge(dst, src)
}
func (m *ZtpLicenseDeviceV2) XXX_Size() int {
    return xxx_messageInfo_ZtpLicenseDeviceV2.Size(m)
}
func (m *ZtpLicenseDeviceV2) XXX_DiscardUnknown() {
    xxx_messageInfo_ZtpLicenseDeviceV2.DiscardUnknown(m)
}

var xxx_messageInfo_ZtpLicenseDeviceV2 proto.InternalMessageInfo

func (m *ZtpLicenseDeviceV2) GetUuid() string {
    if m != nil {
        return m.Uuid
    }
    return ""
func (m *ZtpLicenseDeviceV2) GetSerialNumber() []string {
    if m != nil {
        return m.SerialNumber
    }
    return nil
}

func (m *ZtpLicenseDeviceV2) GetLocationId() string {
    if m != nil {
        return m.LocationId
    }
    return ""
}

func init() {
    proto.RegisterType((*ZtpLicenseDeviceV2)(nil), "cwztpsvc.ZtpLicenseDeviceV2")
}

func init() {
    proto.RegisterFile("cw_ztp_license_device_v2.proto",
    fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399)
}

var fileDescriptor_cw_ztp_license_device_v2_1c5de79621eca399 = []byte{
    // 219 bytes of a gzipped FileDescriptorProto
    0x1f, 0x8b, 0x08, 0x00, 0x00, 0x00, 0x00, 0x02, 0xff, 0x64, 0x8e, 0x4f, 0x5c, 0x4b, 0xc3, 0x40,
    0x10, 0x47, 0x89, 0x15, 0x8b, 0xa7, 0x3d, 0xc5, 0x4b, 0x28, 0x3d, 0xf5, 0x62, 0x16, 0xdb,
    0x6f, 0x10, 0xbd, 0x08, 0x62, 0x4b, 0x10, 0x85, 0x5e, 0x96, 0xdb, 0xc9, 0x12, 0x07, 0x36, 0x99,
    0x65, 0xff, 0x4a, 0x0d, 0x4f, 0x2f, 0x6e, 0x2d, 0x28, 0x3d, 0x96, 0x5e, 0x5f, 0x2d, 0x66, 0x8b,
    0x79, 0x6f, 0x6f, 0xe3, 0x15, 0x63, 0x96, 0x40, 0x45, 0xa4, 0xf1, 0xa5, 0x2b, 0x67,
    0x0f, 0x9b, 0xc6, 0x2d, 0x38, 0x56, 0x01, 0x00, 0x35, 0x60, 0x00, 0x0a, 0x3d, 0x69, 0x8a, 0xa7,
    0xa0, 0xfa, 0xda, 0xdc, 0x3f, 0x7d, 0xe6, 0x6e, 0x9e, 0x98, 0x5d, 0x8b, 0x7f, 0xec,
    0x31, 0x7e, 0x25, 0xbd, 0xf9, 0x15, 0x00, 0x0d, 0xa2, 0xdd, 0x36, 0xdb, 0x77, 0x91, 0x55, 0x0f,
    0xca, 0xa1, 0xe8, 0x99, 0xaa, 0xb1, 0x17, 0x67, 0xf9, 0x8e, 0xc9, 0x10, 0x8d, 0x64, 0x99, 0xb9a, 0x12, 0x01, 0x00, 0x00,
    0x00, 0xff, 0xff, 0x66, 0x8d, 0x49, 0x1a2, 0x01, 0x00, 0x00,
}
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1.582 utils 0.0.0-20191114184206-e782cd3c129f

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That's all there is to it!

1.589 go-runtime 1.12.6

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1.592 query 1.0.0

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package main

import (  
  "bufio"  
  "bytes"  
)
"flag"
"fmt"
"io"
"log"
"os"
"path/filepath"
"strings"
)

const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

-h  prints this message and exits
`

func crUsage(w io.Writer) {
  fmt.Fprint(w, crUsageString)
}

const copyrightText = `

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`

func goComment(text string) string {
  buf := new(bytes.Buffer)
  scanner := bufio.NewScanner(strings.NewReader(text))
  var err error
  for scanner.Scan() {
    s := strings.TrimSpace(scanner.Text())
    if len(s) == 0 {
      continue
    }
    if _, err = fmt.Fprintln(buf, "//", s); err != nil {
      panic(err)
    }
  }
  if err = scanner.Err(); err != nil {
    panic(err)
  }
  if err = scanner.Err(); err != nil {
    panic(err)
  }
  if _, err = fmt.Fprintln(buf); err != nil {
    panic(err)
  }
  return buf.String()
}
func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
        return err
    }
    defer func() {
        cerr := src.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    newPath := path + ".new"
    dst, err := os.Create(newPath)
    if err != nil {
        return err
    }
    defer func() {
        cerr := dst.Close()
        if cerr != nil && err == nil {
            err = cerr
        }
    }()
    out := bufio.NewWriter(dst)
    fmt.Fprintf(out, goCopyright)
    scanner := bufio.NewScanner(src)
    line := 0
    del := false
    for scanner.Scan() {
        line++
        txt := scanner.Text()
        if line == 1 && strings.Contains(txt, "Copyright") {
            del = true
            continue
        }
        if del {
            s := strings.TrimSpace(txt)
            if len(s) == 0 {
                del = false
                continue
            }
            fmt.Fprintf(out, "%s\n", s)
        }
    }
    if err = scanner.Err(); err != nil {
        return err
    }
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return

func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), "go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)

    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }
    help := flag.Bool("h", false, "")

    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
            continue
        }
    }
}
if err = filepath.Walk(path, walkCopyrights); err != nil {
    log.Fatalf("%s error %s", path, err)
}

1.594 x-crypto 0.0.0-20190820162420-60c769a6c586

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1.595 py3-parsing 2.4.7-r2
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1.596 apparentlymart-go-cidr 1.1.0

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1.598 py3-idna 3.2-r0

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1.599 jaxb-api 2.3.0

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  jar/io/netty/handler/ssl/OpenSslSessionContext.java
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* /opt/cola/permits/1112470239_1607093029.74/0/netty-handler-4-1-17-final-sources-1-jar/io/netty/handler/ssl/Java9SslUtils.java
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* /opt/cola/permits/1112470239_1607093029.74/0/netty-handler-4-1-17-final-sources-1-jar/io/netty/handler/ssl/Conscrypt.java
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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

------
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

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.
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<tbody>
<tr>
<td>Simone Bordet</td>
<td>12 September 2006</td>
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1.615 prometheus-common 0.7.0

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

- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

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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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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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1.621 urfave-cli 1.19.1

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1.627 llvm11 11.1.0-r2
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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
}
; RUN: llc %s -mtriple=s390x-linux-gnu -mcpu=zEC12 -verify-machineinstrs | FileCheck %s
;
; Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {
; CHECK-NOT: Expected a GR32Bit register, but got a GRX32Bit register
BB:
%L34 = load i8, i8* %0
%Cmp56 = icmp sgt i8 undef, %L34
br label %CF246

CF246: ; preds = %CF246, %BB
%SI163 = select i1 %Cmp56, i8 %L34, i8 undef
br i1 undef, label %CF246, label %CF248

CF248: ; preds = %CF248, %CF246
store i8 %SI163, i8* %0
br label %CF248
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-unknown-unknown -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
tpmaddwd+vpadddd
; 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 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 void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpaddd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}
define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

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define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vectorwidth"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpmaddwd 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpmaddwd (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32
12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32

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define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
; CHECK-LABEL: pmaddwd_32_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%A = load <32 x i16>, <32 x i16>* %APtr
%B = load <32 x i16>, <32 x i16>* %BPtr
%a = sext <32 x i16> %A to <32 x i32>
%b = sext <32 x i16> %B to <32 x i32>
%m = mul nsw <32 x i32> %a, %b
%odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
%even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
%ret = add <16 x i32> %odd, %even
store <16 x i32> %ret, <16 x i32>* %CPtr
ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: psubus_64i8_max_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpsubusb 32(%rsi), %ymm1, %ymm1
; CHECK-NEXT: vpsubusb (%rsi), %ymm0, %ymm0
; CHECK-NEXT: vmovdqa %ymm0, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <64 x i8>, <64 x i8>* %xptr
%y = load <64 x i8>, <64 x i8>* %yptr
%cmp = icmp ult <64 x i8> %x, %y
%max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
%res = sub <64 x i8> %max, %y
store <64 x i8> %res, <64 x i8>* %zptr
ret void
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" 
{
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:
    ; %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" 
{
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
    ; CHECK:
    ; %bb.0: %entry
    ; CHECK-NEXT: movl %edx, %eax
    ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT: xorl %ecx, %ecx
    ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT: .p2align 4, 0x90
    ; CHECK-NEXT: .LBB8_1: 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: vpadd %ymm2, %ymm3, %ymm2
    ; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %ymm5
    ; CHECK-NEXT: vpmaddwd %ymm4, %ymm5, %ymm3
    ; CHECK-NEXT: vpadd %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: vpadd %ymm0, %ymm1, %ymm1
    ; CHECK-NEXT: vpadd %ymm0, %ymm2, %ymm0
    ; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
    ; CHECK-NEXT: vextracti128 %1, %ymm0, %xmm1


entry:
%3 = zext i32 %2 to i64
br label %vector.body

vector.body:
%index = phi i64 [ %index.next, %vector.body ], [ 0, %entry ]
%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef> %bin.rdx32 = add <32 x i32> %bin.rdx, %rdx.shuf15
%rdx.shuf17 = shufflevector <32 x i32> %bin.rdx32, <32 x i32> undef, <32 x i32> <i32 2, i32 3, i32 4, i32 5, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 unde
define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {  
; CHECK-LABEL: _Z9test_charPcS_i_512:  
; CHECK:       # %bb.0: # %entry  
; CHECK-NEXT:    movl %edx, %eax  
; CHECK-NEXT:    vpxor %xmm0, %xmm0, %xmm0  
; CHECK-NEXT:    xorl %ecx, %ecx  
; CHECK-NEXT:    vpxor %xmm1, %xmm1, %xmm1  
; CHECK-NEXT:    .p2align 4, 0x90  
; CHECK-NEXT:  .LBB9_1: # %vector.body  
; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1  
; CHECK-NEXT:    vpmovsxbw (%rdi,%rcx), %zmm2  
; CHECK-NEXT:    vpmovsxbw (%rsi,%rcx), %zmm3  
; CHECK-NEXT:    vpmaddwd %zmm2, %zmm3, %zmm2  
; CHECK-NEXT:    vpaddd %zmm1, %zmm2, %zmm1  
; CHECK-NEXT:    addq $32, %rcx  
; CHECK-NEXT:    cmpq %rcx, %rax  
; CHECK-NEXT:    jne .LBB9_1  
; CHECK-NEXT:  # %bb.2: # %middle.block  
; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0  
; CHECK-NEXT:    vextracti64x4 $1, %zmm0, %ymm1  
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0  
; CHECK-NEXT:    vextracti128 $1, %ymm0, %xmm1  
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0  
; CHECK-NEXT:    vpsubqd [{.*#+}] xmm1 = xmm0[2,3,0,1]  
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0  
; CHECK-NEXT:    vpsubqd [{.*#+}] xmm1 = xmm0[1,1,2,3]  
; CHECK-NEXT:    vpaddd %zmm1, %zmm0, %zmm0  
; CHECK-NEXT:    vmovd %zmm0, %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 ]

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%vec.phi = phi <32 x i32> [ %11, %vector.body ], [ zeroinitializer, %entry ]
%4 = getelementptr inbounds i8, i8* %0, i64 %index
%5 = bitcast i8* %4 to <32 x i8>*
%wide.load = load <32 x i8>, <32 x i8>* %5, align 1
%6 = sext <32 x i8> %wide.load to <32 x i32>
%7 = getelementptr inbounds i8, i8* %1, i64 %index
%8 = bitcast i8* %7 to <32 x i8>*
%wide.load14 = load <32 x i8>, <32 x i8>* %8, align 1
%9 = sext <32 x i8> %wide.load14 to <32 x i32>
%10 = mul nsw <32 x i32> %9, %6
%11 = add nsw <32 x i32> %10, %vec.phi
%index.next = add i64 %index, 32
%12 = icmp eq i64 %index.next, %3
br i1 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf1
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx = add <32 x i32> %bin.rdx1, %rdx.shuf
%rdx.shuf15 = shufflevector <32 x i32> %bin.rdx, <32 x i32> undef, <32 x i32> <i32 4, i32 5, i32 6, i32 7, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, 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>
%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>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13
}

@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16
define i32 @sad_16i8_256() "min-legal-vector-width"="256" {
; CHECK-LABEL: sad_16i8_256:
; CHECK:     # %bb.0: # %entry
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: .p2align 4, 0x90
; CHECK-NEXT: .LBB10_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm2
; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm2
; CHECK-NEXT: vpadd %ymm1, %ymm2, %ymm1
; CHECK-NEXT: addq $4, %rax
; CHECK-NEXT: jne .LBB10_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpadd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vextracti128 %y0, %ymm0, %ymm1
; CHECK-NEXT: vpadd %ymm1, %xmm0, %xmm0
; CHECK-NEXT: vpshufd %ymm0, %ymm1, %ymm0
; CHECK-NEXT: vpshufd %xmm1, %ymm0, %ymm0
; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vpadd %ymm1, %ymm0, %ymm0
; CHECK-NEXT: vmovd %xmm0, %eax
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
entry:
  br label %vector.body

vector.body:
  %index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
  %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> zeroinitialize, %6
  %9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
  %10 = add nsw <16 x i32> %9, %vec.phi
  %index.next = add i64 %index, 4
  %11 = icmp eq i64 %index.next, 1024
  br i1 %11, label %middle.block, label %vector.body
middle.block:
%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, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define i32 @sad_16i8_512() "min-legal-vector-width"="512" {
  ; CHECK-LABEL: sad_16i8_512:
  ; CHECK:       # %bb.0: # %entry
  ; CHECK-NEXT:  vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT:  movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT:  .p2align 4, 0x90
  ; CHECK-NEXT:  .LBB11_1: # %vector.body
  ; CHECK-NEXT:    # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT:    vmovdqu a+1024(%rax), %xmm1
  ; CHECK-NEXT:    vpsadbw b+1024(%rax), %xmm1, %xmm1
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    addq $4, %rax
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
  ; CHECK-NEXT:    vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT:    vmovd %xmm0, %eax
  ; CHECK-NEXT:    vzeroupper
  ; CHECK-NEXT:    retq
  entry:
  br label %vector.body
vector.body:
%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi <16 x i32> [ 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, 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>
%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 void @sbtol6f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: sbtol6f32_256:
; CHECK:   # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0

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define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {

define void @sbto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f64_512:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovw2m %ymm0, %k0
    ; CHECK-NEXT: vpmovm2d %k0, %zmm0
    ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
    ; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
    ; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
    ; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
    ; CHECK-NEXT: vmovaps %zmm1, (%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    ; %mask = icmp slt <16 x i16> %a, zeroinitialize
    ; %1 = sitofp <16 x i1> %mask to <16 x double>
    ; store <16 x double> %1, <16 x double>* %res
    ret void
}

define void @ubto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: ubto16f32_256:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovw2m %ymm0, %k0
    ; CHECK-NEXT: kshiftrw $8, %k0, %k1
    ; CHECK-NEXT: vpmovm2d %k1, %ymm0
    ; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
    ; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT: vpmovm2d %k0, %ymm1
    ; CHECK-NEXT: vpsrld $31, %ymm1, %ymm1
    ; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1
    ; CHECK-NEXT: vmovaps %ymm1, (%rdi)
    ; CHECK-NEXT: vmovaps %ymm0, 32(%rdi)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    ; %mask = icmp slt <16 x i16> %a, zeroinitialize
    ; %1 = uitofp <16 x i1> %mask to <16 x float>
    ; store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: ubto16f32_512:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vmovw2m %ymm0, %k0

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubto16f64_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitilaizer
%1 = uitofp <16 x i1> %mask to <16 x float>
store <16 x float> %1, <16 x float>* %res
ret void
}

define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK: # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm1
; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
; CHECK-NEXT: vcvtdq2pd %xmm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm2
; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm3
; CHECK-NEXT: vextracti128 $1, %ymm2, %xmm2
; CHECK-NEXT: vcvtdq2pd %xmm2, %ymm2
; CHECK-NEXT: vmovaps %ymm2, 32(%rdi)
; CHECK-NEXT: vmovaps %ymm3, (%rdi)
; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitilaizer
%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:   vcvtps2dq (%rdi), %ymm1
    ; CHECK-NEXT:   vpslld $31, %ymm1, %ymm1
    ; CHECK-NEXT:   vpmovd2m %ymm1, %k0
    ; CHECK-NEXT:   vcvtps2dq 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:   vcvtps2dq (%rdi), %zmm1
    ; CHECK-NEXT:   vpslld $31, %zmm1, %zmm1
    ; CHECK-NEXT:   vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:   vmovdqu16 %zmm0, %zmm0 {%k1} {z}
    ; CHECK-NEXT:   retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: test_16f32tosb_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:   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
}
; CHECK-AVX512-NEXT:  vpackuswb %ymmm4, %ymmm1, %ymmm1
; 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:  vpunpckhbw {{.*#+}} ymm2 =
  ymm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-AVX512-NEXT:  vpackuswb %ymmm5, %ymmm3, %ymmm3
; CHECK-AVX512-NEXT:  vpand %ymmm5, %ymmm3, %ymmm3
; CHECK-AVX512-NEXT:  vpackuswb %ymmm3, %ymmm4, %ymmm3
; CHECK-AVX512-NEXT:  vmovdqa %ymmm0, (%rdx)
; CHECK-AVX512-NEXT:  vmovdqa %ymmm1, 32(%rdx)
; CHECK-AVX512-NEXT:  vzeroupper
; CHECK-AVX512-NEXT:  retq

; CHECK-VBMI-LABEL:  mul256:
; CHECK-VBMI:  # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymmm0
; CHECK-VBMI-NEXT:  vmovdqa 32(%rdi), %ymmm1
; CHECK-VBMI-NEXT:  vmovdqa (%rsi), %ymmm2
; CHECK-VBMI-NEXT:  vmovdqa 32(%rsi), %ymmm3
; 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:  vpunpckhbw {{.*#+}} ymm5 =
  ymm1[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31]
; CHECK-VBMI-NEXT:  vpmullw %ymmm4, %ymmm5, %ymmm4
; CHECK-VBMI-NEXT:  vpermt2b %ymmm3, %ymmm1, %ymmm1
; CHECK-VBMI-NEXT:  vpackuswb %ymmm3, %ymmm4, %ymmm3
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm3 =
  ymm2[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} ymm4 =
  ymm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; CHECK-VBMI-NEXT:  vpermt2b %ymmm2, %ymmm0, %ymmm0
; CHECK-VBMI-NEXT:  vpackuswb %ymmm2, %ymmm1, %ymmm1
; CHECK-VBMI-NEXT:  vmovdqa %ymmm1, 32(%rdx)
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq
%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}
define 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: vmovdqa64 (%rdi), %zmm0
    ; CHECK-AVX512-NEXT: vmovdqa64 (%rsi), %zmm1
    ; CHECK-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm2 =
        zmm1[8,8,9,9,10,10,11,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
        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-AVX512-NEXT: vpunpckhbw {{.*#+}} zmm3 =
        zmm0[8,8,9,9,10,10,11,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
        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-AVX512-NEXT: vpmullw %zmm2, %zmm3, %zmm2
    ; CHECK-AVX512-NEXT: vpmullw %zmm3, %zmm2, %zmm2
    ; CHECK-AVX512-NEXT: vpackuswb %zmm2, %zmm0, %zmm0
    ; CHECK-AVX512-NEXT: vmovdqa64 {{.*#+}} zmm3 =
        2,55,255,255,255,255]
    ; CHECK-AVX512-NEXT: vpandq %zmm3, %zmm2, %zmm2
    ; CHECK-AVX512-NEXT: vpandq %zmm2, %zmm3, %zmm2
    ; CHECK-AVX512-NEXT: vpunpcklwb {{.*#+}} zmm1 =
        zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
        6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
    ; CHECK-AVX512-NEXT: vpunpcklwb {{.*#+}} zmm0 =
        zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,3
        6,37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55]
    ; CHECK-AVX512-NEXT: vpmullw %zmm1, %zmm0, %zmm0
    ; CHECK-AVX512-NEXT: vpmullw %zmm0, %zmm1, %zmm0
    ; CHECK-AVX512-NEXT: vpand %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[8,8,9,9,10,10,11,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,4
        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[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,
  37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55] =
; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2

; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
  zmm1[0,1,1,2,2,3,3,4,4,5,5,5,5,6,6,6,7,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,
  37,37,38,38,39,39,48,48,49,49,50,50,51,51,52,52,53,53,54,54,55,55] =
; CHECK-VBMI-NEXT:  vpmullw %zmm1, %zmm0, %zmm0

; CHECK-VBMI-NEXT:  vpmulld %zmm1, %zmm0
; CHECK-VBMI-NEXT:  vpmulld %zmm2, %zmm0

; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq

; CHECK-VMIA-NEXT:  zmm =
  zmm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,12,12,13,13,
  14,14,15,15,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,
  33,33,34,34,35,35,36,36,37,37,38,38,39,39,48,48,49,49,50,50,51,51,
  52,52,53,53,54,54,55,55] =
; CHECK-VMIA-NEXT:  vmovdqa64 {{.*#+}} zmm3 =
  [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,
; CHECK-VMIA-NEXT:  vzeroupper
; CHECK-VMIA-NEXT:  retq

; CHECK-VMIA-NEXT:  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,
; CHECK-VMIA-NEXT:  vzeroupper
; CHECK-VMIA-NEXT:  retq

%d = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%f = mul <64 x i8> %d, %e
store <64 x i8> %f, <64 x i8>* %c
ret void
}
define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL:  trunc_v16i64_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vmovdqa 64(%rdi), %ymm2
; CHECK-NEXT:  vmovdqa 96(%rdi), %ymm3
; CHECK-NEXT:  vpmovqb %ymm3, %xmm3
; CHECK-NEXT:  vpmovqb %ymm2, %xmm2
; CHECK-NEXT:  vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[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 i32>
ret <16 x i32> %b
}

define <16 x i8> @trunc_v16i32_v16i8(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL:  trunc_v16i32_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm0
; CHECK-NEXT:  vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT:  vpmovdb %ymm1, %xmm1
; CHECK-NEXT:  vpmovdb %ymm0, %xmm0
; CHECK-NEXT:  vpunpcklqdq {{.*#+}} xmm0 = xmm0[0],xmm1[0],xmm0[1],xmm1[1]
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq

%a = load <16 x i32>, <16 x i32>* %x
%b = trunc <16 x i32> %a to <16 x i8>
ret <16 x i8> %b
}

define <8 x i8> @trunc_v8i64_v8i8(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {

define <32 x i8> @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 =  
  ; CHECK-NEXT:  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[2,3,0,1]  
  ; CHECK-NEXT:  vpshufd {{.*#+}} ymm2 =  
  ; CHECK-NEXT:  xmm2[0],zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,xmm2[3],zero,zero,zero  
  ; CHECK-NEXT:  vextracti128 $1, %ymm1, %xmm1  
  ; CHECK-NEXT:  vpshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]  
  ret <32 x i8> %c  
}

define <32 x i16> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {  
  ; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:  
  ; CHECK-AVX512:       # %bb.0:  
  ; CHECK-AVX512-NEXT:  vpsraw $8, 32(%rdi), %ymm0  
  ; CHECK-AVX512-NEXT:  vpsraw $8, (%rdi), %ymm1  
  ; CHECK-AVX512-NEXT:  vpacksswb %ymm0, %ymm1, %ymm0  
  ; CHECK-AVX512-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]  
  ; CHECK-AVX512-NEXT:  retq  
  ; CHECK-VBMI-LABEL: trunc_v32i16_v32i8_sign:  
  ; CHECK-VBMI:       # %bb.0:  
  ; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm1  
  ; CHECK-VBMI-NEXT:  vmovdqa {{.*#+}} ymm0 =  
  ; CHECK-VBMI-NEXT:  [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:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]  
  ; CHECK-VBMI-NEXT:  retq  
  ; CHECK-VBMI-NEXT:  retq  
  %a = load <32 x i16>, <32 x i32>* %x  
  %b = ashr <32 x i16> %a, <i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8, i16 8>  
  %c = trunc <32 x i16> %b to <32 x i16>  
  ret <32 x i16> %c  
}

define <16 x i32> @trunc_v16i32_v16i16_sign:  
; CHECK:       # %bb.0:  
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1  
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]  
; CHECK-NEXT:  vpermi2w 32(%rdi), %ymm1, %ymm0  
; CHECK-NEXT:  retq  
%a = load <16 x i32>, <16 x i32>* %x  
%b = ashr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>  
%c = trunc <16 x i32> %b to <16 x i16>  
ret <16 x i16> %c  
}

define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {  
  ; CHECK-LABEL: zext_v16i8_v16i64:  
  ; CHECK:       # %bb.0:  
  ; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm1 =  
  ; CHECK-NEXT:  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[2,3,0,1]  
  ; CHECK-NEXT:  vpshufd {{.*#+}} ymm2 =  
  ; CHECK-NEXT:  xmm2[0],zero,zero,xmm2[1],zero,zero,zero,xmm2[2],zero,zero,xmm2[3],zero,zero,zero  
  ; CHECK-NEXT:  vextracti128 $1, %ymm1, %xmm1  
  ; CHECK-NEXT:  vpshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]  
  ret <16 x i8> %c  
}
; CHECK-NEXT:  vpmovzxwq {{.*#+}} ymm3 = xmm3[0],zero,zero,zero,xmm3[1],zero,zero,zero,xmm3[2],zero,zero,zero,xmm3[3],zero,zero,zero
; CHECK-NEXT:  vpmovzxwq {{.*#+}} ymm1 = xmm1[0],zero,zero,zero,xmm1[1],zero,zero,zero,xmm1[2],zero,zero,zero,xmm1[3],zero,zero,zero
; CHECK-NEXT:  vpmovzxwq {{.*#+}} 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
}
define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL:  sext_v16i8_v16i64:
; CHECK:  
; CHECK-NEXT:  vpmovsxbw %xmm0, %ymm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; CHECK-NEXT:  vpmovsxwq %ymm1, %xmm1
; CHECK-NEXT:  vextracti128 $1, %ymm0, %xmm2
; CHECK-NEXT:  vpshufd {{.*#+}} xmm3 = xmm2[2,3,0,1]
; CHECK-NEXT:  vpmovsxwq %ymm3, %xmm3
; CHECK-NEXT:  vpmovsxwq %ymm0, %ymm0
; CHECK-NEXT:  vpmovsxwq %ymm2, %ymm2
; CHECK-NEXT:  vmovdqa %ymm2, 64(%rdi)
; CHECK-NEXT:  vmovdqa %ymm0, (%rdi)
; CHECK-NEXT:  vmovdqa %ymm3, 96(%rdi)
; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdi)
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = sext <16 x i8> %x to <16 x i64>
store <16 x i64> %a, <16 x i64>* %y
ret void
}
define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL:  vselect_split_v8i16_setcc:
; CHECK:  
; CHECK-NEXT:  vmovdqa (%rsi), %ymm2
; CHECK-NEXT:  vpcmpeqw %xmm1, %xmm0, %k1
; CHECK-NEXT:  kshiftrb $4, %k1, %k2
define void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
  %x = load <8 x i64>, <8 x i64>* %p
  %y = load <8 x i64>, <8 x i64>* %q
  %a = icmp eq <8 x i32> %s, %t
  %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
  store <8 x i64> %b, <8 x i64>* %r
  ret void
}

define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
  %x = load <16 x i64>, <16 x i64>* %p
  %y = load <16 x i64>, <16 x i64>* %q
  %a = icmp eq <16 x i32> %s, %t
  %b = select <16 x i1> %a, <16 x i64> %x, <16 x i64> %y
  store <16 x i64> %b, <16 x i64>* %r
  ret void
}
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdqa (%rsi), %ymm2
; CHECK-NEXT:   vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT:   vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT:   kshiftrw $8, %k1, %k2
; CHECK-NEXT:   vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT:   vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT:   vmovdqa %ymm2, (%rdx)
; CHECK-NEXT:   vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT:   vzeroupper
; CHECK-NEXT:   retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
; CHECK-NEXT:   vpckusdw 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> <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>
ret <16 x i8> %f
}

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:     # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vpackusdw 32(%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT: vmovuswb %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> %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>
store <16 x i8> %f, <16 x i8>* %q
ret void
}

define <64 x i1> @v64i1_argument_return(<64 x i1> %x) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_argument_return:
; CHECK:     # %bb.0:
; CHECK-NEXT: retq
ret <64 x i1> %x
}

define void @v64i1_shuffle(<64 x i8>* %x, <64 x i8>* %y) "min-legal-vector-width"="256" {
; CHECK-LABEL: v64i1_shuffle:
; CHECK:     # %bb.0: # %entry
; CHECK-NEXT: vmovdqa (%rdi), %ymm1
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm0
; CHECK-NEXT: vptestnmb %ymm1, %ymm1, %k0
; CHECK-NEXT: kshiftrd $1, %k0, %k1
; CHECK-NEXT: movq $-3, %rax
; CHECK-NEXT: kmovq %rax, %k2
; CHECK-NEXT: kandq %k2, %k1, %k1
; CHECK-NEXT: kshiftlq $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:  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 $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:   movq $-65537, %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 = 0xFFFDFFFF
; 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 = 0xFFFBEFFF
; 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 = 0xFFEFFFFF
; 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 $43, %k2, %k2
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-2097153, %rax # imm = 0xFFDDFFFF
; 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:   kshiftrq $42, %k2, %k2
; CHECK-NEXT:   korq %k2, %k1, %k1
; CHECK-NEXT:   movq $-4194305, %rax # imm = 0xFFBFFFFF
; 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:   kshiftrq $41, %k2, %k2
; CHECK-NEXT:  kshiftrq $34, %k2, %k2
; CHECK-NEXT:  korq %k2, %k1, %k1
; CHECK-NEXT:  movq $.1073741825, %rax # imm = 0xBFFFFFFF
; 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:  vptestnmb %ymm0, %ymm0, %k1
; CHECK-NEXT:  kshiftrd $30, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k0, %k0
; CHECK-NEXT:  kshiftrq $32, %k0, %k0
; CHECK-NEXT:  korq %k0, %k2, %k0
; CHECK-NEXT:  movabsq $-4294967297, %rax # imm = 0xFFFFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $31, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-8589934593, %rax # imm = 0xFFFFFFFFFFFFFFFFFFF
; 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 = 0xFFFFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k1, %k2
; CHECK-NEXT:  kshiftrq $29, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-34359738369, %rax # imm = 0xFFFFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftlq $63, %k0, %k0
; CHECK-NEXT:  kshiftrq $28, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-68719476737, %rax # imm = 0xFFFFFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $5, %k1, %k2
kshiftrd $10, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $20, %k2, %k2
korq %k2, %k0, %k0
movabsq $-17592186044417, %rax # imm = 0xFFFFFFFFFFFFFFF
kmovq %rax, %k2
candq %k2, %k0, %k0
kshiftrd $13, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $19, %k2, %k2
korq %k2, %k0, %k0
movabsq $-35184372088833, %rax # imm = 0xFFFFFFDFFFFFFFFF
kmovq %rax, %k2
candq %k2, %k0, %k0
kshiftrd $12, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $18, %k2, %k2
korq %k2, %k0, %k0
movabsq $-70368744177665, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
kmovq %rax, %k2
candq %k2, %k0, %k0
kshiftrd $15, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $17, %k2, %k2
korq %k2, %k0, %k0
movabsq $-140737488355329, %rax # imm = 0xFFFFFFFF7FFFFFFFFF
kmovq %rax, %k2
candq %k2, %k0, %k0
kshiftrd $14, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $16, %k2, %k2
korq %k2, %k0, %k0
movabsq $-281474976710657, %rax # imm = 0xFFFFFFFFEFFFFFFFFF
kmovq %rax, %k2
candq %k2, %k0, %k0
kshiftrd $17, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $15, %k2, %k2
korq %k2, %k0, %k0
movabsq $-562949953421313, %rax # imm = 0xFFFFFFFFDFFFFFFFFF
kmovq %rax, %k2
candq %k2, %k0, %k0
kshiftrd $16, %k1, %k2
kshiftlq $63, %k2, %k2
kshiftrq $14, %k2, %k2
korq %k2, %k0, %k0
movabsq $-1125899906842625, %rax # imm = 0xFFFFFFFFBFFFFFFFFF
kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $19, %k1, %k2
; CHECK-NEXT:   kshiftrq $13, %k2, %k2
; CHECK-NEXT:   korrq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-2251799813685249, %rax # imm = 0xFFF7FFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $18, %k1, %k2
; CHECK-NEXT:   kshiftrq $12, %k2, %k2
; CHECK-NEXT:   korrq %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:   kshiftrq $11, %k2, %k2
; CHECK-NEXT:   korrq %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:   kshiftrq $10, %k2, %k2
; CHECK-NEXT:   korrq %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:   kshiftrq $9, %k2, %k2
; CHECK-NEXT:   korrq %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:   kshiftrq $8, %k2, %k2
; CHECK-NEXT:   korrq %k2, %k0, %k0
; CHECK-NEXT:   movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFF
; CHECK-NEXT:   kmovq %rax, %k2
; CHECK-NEXT:   kandq %k2, %k0, %k0
; CHECK-NEXT:   kshiftrd $25, %k1, %k2
; CHECK-NEXT:   kshiftrq $7, %k2, %k2
; CHECK-NEXT:   korrq %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 = 0xF7FFFFFFFFFFFFFF
; 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 = 0xDFFFFFFFFFFFFFF
; 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:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-4611686018427387905, %rax # imm = 0xBFFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $31, %k1, %k2
; CHECK-NEXT:  kshiftlq $62, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $30, %k1, %k1
; CHECK-NEXT:  kshiftlq $1, %k0, %k0
; CHECK-NEXT:  kshiftrq $1, %k0, %k0
; CHECK-NEXT:  kshiftrq $3, %k1, %k1
; CHECK-NEXT:  kshiftrq $2, %k1, %k1
; CHECK-NEXT:  vmovdq8 %ymm1, (%rsi) [%k1]
; CHECK-NEXT:  kshiftrq $32, %k1, %k1
; CHECK-NEXT:  vmovdq8 %ymm0, 32(%rsi) [%k1]
entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitialzer
  %shuf = shufflevector <64 x i1> %b, <64 x i1> undef, <64 x i32> undef
  [%i32 0, 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 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 32, i32 33, i32 34, i32 35, i32 36, i32 37, i32 38, i32 39, i32 40, i32 41, i32 42, i32 43, i32 44, i32 45, i32 46, i32 47, i32 48, i32 49, i32 50, i32 51, i32 52, i32 53, i32 54, i32 55, i32 56, i32 57, i32 58, i32 59, i32 60, i32 61, i32 62, i32 63, i32 64>
  call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>* , i32, <64 x i1>)

@mem64_dst = global i64 0, align 8
@mem64_src = global i64 0, align 8
define i32 @v64i1_inline_asm() "min-legal-vector-width"="256" {
 ; CHECK-LABEL: v64i1_inline_asm:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: kmovq [%.*]){%rip}, %k0
 ; CHECK-NEXT: #APP
 ; CHECK-NEXT: #NO_APP
 ; CHECK-NEXT: kmovq %k0, [%.*]){%rip}
 ; CHECK-NEXT: movl -{[0-9]+)}{%rip}, %eax
 ; CHECK-NEXT: retq
  %1 = alloca i32, align 4
  %2 = load i64, i64* @mem64_src, align 8
  %3 = call i64 asm "", "=k,k,~{dirflag},~{fpsr},~{flags}"(i64 %2)
  store i64 %3, i64* @mem64_dst, align 8
  %4 = load i32, i32* %1, align 4
  ret i32 %4
}
define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: cmp_v8i64_sext:
 ; CHECK: # %bb.0:
 ; CHECK-NEXT: vmovdqa (%rsi), %ymm0
 ; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
 ; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm0
 ; CHECK-NEXT: vpcmpgtq (%rdi), %ymm0, %ymm0
 ; CHECK-NEXT: vmovdqa %ymm0, (%rdx)
 ; CHECK-NEXT: vmovdqa %ymm1, 32(%rdx)
 ; CHECK-NEXT: vzeroupper
 ; CHECK-NEXT: retq
  %x = load <8 x i64>, <8 x i64>* %xptr
  %y = load <8 x i64>, <8 x i64>* %yptr
%cmp = icmp slt <8 x i64> %x, %y
%ext = sext <8 x i1> %cmp to <8 x i64>
store <8 x i64> %ext, <8 x i64>* %zptr
ret void
}

define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
; CHECK-LABEL: cmp_v8i64_zext:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpcmpgtq 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vpcmpgtq (%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
; 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,xmm1[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,xmm0[15],zero
; CHECK-NEXT: vpsllvw %ymm1, %ymm0, 0
; 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,xmm2[15],zero
; CHECK-NEXT: vpsrlw %ymm2, %ymm0, 0
; CHECK-NEXT: vpor %ymm0, %ymm1, %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:  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:  vpsllw $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 <32 x i8> <i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8, i8 8>, %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> @splatvar_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {

; CHECK-LABEL: splatvar_rotate_v32i8:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpbroadcastb %xmm1, %xmm1
; CHECK-NEXT:  vpand {[*]}(%rip), %xmm1, %xmm1
; CHECK-NEXT:  vpmovzxbq {[*]+} xmm2 = 
; CHECK-NEXT:  vmovdqa {[*]+} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT:  vpsllw %xmm2, %xmm0, %ymm3
; CHECK-NEXT:  vmovdqa {[*]+} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT:  vpsllw %ymm0, %ymm0
; CHECK-NEXT:  vmovdqa {[*]+} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT:  vpsllw %ymm0, %ymm0
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:   vpand {{.*}}(%rip), %ymm1, %ymm1
    ; CHECK-AVX512-NEXT:   vbroadcasti128 {{.*#+}} ymm2 =
    ; CHECK-AVX512-NEXT:       [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, %ymm0, %ymm1
    ; CHECK-AVX512-NEXT:   vpsllw $2, %ymm1, %ymm3
    ; CHECK-AVX512-NEXT:   vpand {{.*}}(%rip), %ymm3, %ymm3
    ; CHECK-AVX512-NEXT:   vpaddb %ymm2, %ymm2, %ymm2
    ; CHECK-AVX512-NEXT:   vblendvb %ymm2, %ymm3, %ymm1, %ymm1
    ; CHECK-AVX512-NEXT:   vpaddb %ymm1, %ymm1, %ymm3
    ; CHECK-AVX512-NEXT:   vpaddb %ymm2, %ymm2, %ymm2
    ; CHECK-AVX512-NEXT:   vblendvb %ymm2, %ymm3, %ymm1, %ymm1
    ; CHECK-AVX512-NEXT:   vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-AVX512-NEXT:   vpuncpckhbw {{.*#+1}} ymm3 =
    ; CHECK-AVX512-NEXT:       ymm0[8],ymmm[8],ymmm[9],ymmm[9],ymmm[10],ymmm[10],ymmm[11],ymmm[11],ymmm[12],ymmm[12],ymmm[13]
    ; CHECK-AVX512-NEXT:       ymm2[13],ymmm[14],ymmm[14],ymmm[15],ymmm[15],ymmm[16],ymmm[16],ymmm[17],ymmm[17],ymmm[18],ymmm[18]
    ; CHECK-AVX512-NEXT:   # ymm0 = ymm0[0],ymmm[0],ymmm[1],ymmm[2],ymmm[2],ymmm[3],ymmm[3],ymmm[4],ymmm[4],ymmm[5],ymmm[5]
    ; CHECK-AVX512-NEXT:   vpsllw {{.*}}(%rip), %ymm3, %ymm3
    ; CHECK-AVX512-NEXT:   vpsrlw $8, %ymm3, %ymm3
    ; CHECK-AVX512-NEXT:   vpuncpckiwb {{.*#+1}} ymm0 =
    ; CHECK-AVX512-NEXT:       ymm0[0],ymmm[0],ymmm[1],ymmm[2],ymmm[2],ymmm[3],ymmm[3],ymmm[4],ymmm[4],ymmm[5],ymmm[5]
    ; CHECK-AVX512-NEXT:       ymm[6],ymmm[6],ymmm[7],ymmm[7],ymmm[8],ymmm[8],ymmm[9],ymmm[9],ymmm[10],ymmm[10],ymmm[11],ymmm[11]
    ; CHECK-AVX512-NEXT:       ymm[12],ymmm[12],ymmm[13],ymmm[13],ymmm[14],ymmm[14],ymmm[15],ymmm[15],ymmm[16],ymmm[16],ymmm[17],ymmm[17]
define <32 x i8> @splatconstant_rotate_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
define <32 x i8> @splatconstant_rotate_mask_v32i8(<32 x i8> %a) nounwind "min-legal-vector-width"="256" {
    ; CHECK-LABEL: @splatconstant_rotate_mask_v32i8:
    ; CHECK: # %bb.0:
    ; CHECK-NEXT: vpsllw $4, %ymm0, %ymm1
    ; CHECK-NEXT: vpsrlw $4, %ymm0, %ymm0
    ; CHECK-NEXT: vpternlogq $216, {{.*}}(%rip), %ymm1, %ymm0
    ; CHECK-NEXT: vpand {{.*}}(%rip), %ymm0, %ymm0
    retq
    %shl = shr <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, i8 4, i8 4, i8 4>
    %lshr = lshr <32 x i8> %a, <i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4, i8 4>
    %rmask = and <32 x i8> %lshr, <i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55, i8 55>
    %lmask = and <32 x i8> %shl, <i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33, i8 33>
    %or = or <32 x i8> %rmask, %lmask
    ret <32 x i8> %or
}

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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts
; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
  br i1 undef, label %while.end, label %while.body.lr.ph

while.body.lr.ph: ; preds = %entry
  br label %while.body

while.body: ; preds = %exit.2, %while.body.lr.ph
  %lsr.iv = phi %struct.0* [ %cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
switch i32 undef, label %exit [ 
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

sw.bb.i: ; preds = %while.body
  unreachable

sw.bb3.i: ; preds = %while.body
  unreachable

exit: ; preds = %while.body
  switch i32 undef, label %exit.2 [ 
    i32 1, label %sw.bb.i
    i32 2, label %sw.bb3.i
  ]

sw.bb.i: ; preds = %exit
  %0 = bitcast %struct.0* %lsr.iv to i32*
  %1 = load i32, i32* %0, align 4
  unreachable

sw.bb3.i: ; preds = %exit
  %2 = bitcast %struct.0* %lsr.iv to i8**
  %3 = load i8*, i8** %2, align 4
  unreachable

exit.2: ; preds = %exit
  %cgep22 = getelementptr %struct.0, %struct.0* %lsr.iv, i32 1
  br label %while.body
while.end: ; preds = %entry
ret void
}

attributes #0 = { nounwind optsize "target-cpu"="hexagonv55" }
; RUN: llc -mtriple=aarch64-apple-ios %s -o - | FileCheck %s

define <16 x double> @test_sitofp_fixed(<16 x i32> %in) {
  ; CHECK-LABEL: test_sitofp_fixed:

  ; First, extend each i32 to i64.
  ; CHECK-DAG: sshll2.2d [[BLOCK0_HI:v[0-9]+]], v0, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK1_HI:v[0-9]+]], v1, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK2_HI:v[0-9]+]], v2, #0
  ; CHECK-DAG: sshll2.2d [[BLOCK3_HI:v[0-9]+]], v3, #0
  ; CHECK-DAG: 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, double 64.0, double 64.0>
  ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
  ; CHECK-LABEL: test_sitofp_fixed_shortish:

  ; CHECK-DAG: scvtf.2d v0, v0
  ; CHECK-DAG: scvtf.2d v1, v1

  ; CHECK: ret
  %flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=x86_64-linux-android -mattr=+mmx -enable-legalize-types-checking | FileCheck %s
;     D31946
; Check that we don't 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:   jg .LBB0_2
  ; CHECK-NEXT: # %bb.1:
  ; CHECK-NEXT: xorps %xmm0, %xmm0
  ; CHECK-NEXT: .LBB0_2:
  ; CHECK-NEXT: # %bb.1:
  ; 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

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 0xL0000000000000000800000000000000000000000, %mul
    ret fp128 %res
}

; RUN: opt %s -inline -S | FileCheck %s

define internal void @innerSmall() "min-legal-vector-width"="128" { ret void }

define internal void @innerLarge() "min-legal-vector-width"="512" { ret void }

define internal void @innerNoAttribute() { ret void }

; We should not add an attribute during inlining. No attribute means unknown.
; Inlining doesn't change the fact that we don't know anything about this function.
define void @outerNoAttribute() {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeSmall() "min-legal-vector-width"="128" {
  call void @innerLarge()
  ret void
}

define void @outerConflictingAttributeLarge() "min-legal-vector-width"="512" {
  call void @innerSmall()
  ret void
}

; We should remove the attribute after inlining since the callee's
; vector width requirements are unknown.
define void @outerAttribute() "min-legal-vector-width"="128" {
  call void @innerNoAttribute()
  ret void
}

; CHECK: define void @outerNoAttribute() {
; CHECK: define void @outerConflictingAttributeSmall() #0
; CHECK: define void @outerConflictingAttributeLarge() #0
; CHECK: define void @outerAttribute() {
; CHECK: attributes #0 = { "min-legal-vector-width"="512" }
; RUN: opt -consthoist -S -o - %s | FileCheck %s
target triple = "thumbv6m-none--musleabi"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG:  %[[C1:const[0-9]+]] = bitcast i32 805874720 to i32
; CHECK-DAG:  %[[C2:const[0-9]+]] = bitcast i32 805874688 to i32
; CHECK-DAG:  %[[C3:const[0-9]+]] = bitcast i32 805873720 to i32
; CHECK-DAG:  %[[C4:const[0-9]+]] = bitcast i32 805873688 to i32
; CHECK:  %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT:  %1 = load volatile i8, i8* %0
; CHECK-NEXT:  %[[M1:const_mat[0-9]+]] = add i32 %[[C2]], 4
; CHECK-NEXT:  %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT:  %3 = load volatile i8, i8* %2
; CHECK-NEXT:  %[[M2:const_mat[0-9]+]] = add i32 %[[C2]], 31
; CHECK-NEXT:  %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT:  %5 = load volatile i8, i8* %4
; CHECK-NEXT:  %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %[[M3:const_mat[0-9]?!]] = add i32 %[[C1]], 7
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
; CHECK-NEXT: %[[M4:const_mat[0-9]?!]] = add i32 %[[C4]], 31
; CHECK-NEXT: %11 = inttoptr i32 %[[M4]] to i8*
; CHECK-NEXT: store i8 %7, i8* %11
; CHECK-NEXT: %12 = inttoptr i32 %[[C3]] to i8*
; CHECK-NEXT: store i8 %5, i8* %12
; CHECK-NEXT: %[[M5:const_mat[0-9]?!]] = add i32 %[[C3]], 7
; CHECK-NEXT: %13 = inttoptr i32 %[[M5]] to i8*
; CHECK-NEXT: store i8 %3, i8* %13
; CHECK-NEXT: %[[M6:const_mat[0-9]?!]] = add i32 %[[C3]], 80
; CHECK-NEXT: %14 = inttoptr i32 %[[M6]] to i8*
; CHECK-NEXT: store i8* %14, i8** @goo

@goo = global i8* undef

define void @foo_i8() {
  entry:
    %0 = load volatile i8, i8* inttopr (i32 805874688 to i8*)
    %1 = load volatile i8, i8* inttopr (i32 805874692 to i8*)
    %2 = load volatile i8, i8* inttopr (i32 805874719 to i8*)
    %3 = load volatile i8, i8* inttopr (i32 805874720 to i8*)
    %4 = load volatile i8, i8* inttopr (i32 805874727 to i8*)
    store i8 %4, i8* inttopr(i32 8058739688 to i8*)
    store i8 %3, i8* inttopr(i32 805873719 to i8*)
    store i8 %2, i8* inttopr(i32 805873720 to i8*)
    store i8 %1, i8* inttopr(i32 805873727 to i8*)
    store i8* inttopr(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 = inttopr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]?!]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttopr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]?!]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttopr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]?!]] = add i32 %[[C2]], 62
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 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
}
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 -attributor -attributor-manifest-internal -attributor-max-iterations-verify -attributor-annotate-decl-cs -attributor-max-iterations=4 -S < %s | FileCheck %s --check-prefixes=CHECK,NOT_CGSCC_NPM,NOT_CGSCC_OPM,NOT_TUNIT_NPM.IS__TUNIT____.IS________OP M.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 M.IS__TUNIT_NPM

RUN: opt -attributor-cgscc -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________OP M.IS__CGSCC_OPM

RUN: opt -aa-pipeline=basic-aa -passes=attributor-cgscc -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 M.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 {

; NOT_TUNIT_NPM-LABEL: define
{{[@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define
{{[@]+}} @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: ret void

bb:
```
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  ; IS__TUNIT_OPM-LABEL: define {[^@]+} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_OPM-NEXT: bb:
  ; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofreenonnull readonly align 64
dereferenceable(64) [[TMP]])
  ; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_OPM-NEXT: ret void
  ;
  ; IS__TUNIT_NPM-LABEL: define {[^@]+} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_NPM-NEXT: bb:
  ; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64
dereferenceable(64) [[TMP0]])
  ; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_NPM-NEXT: ret void
  ;
  ; IS__CGSCC_OPM-LABEL: define {[^@]+} @avx512_legal512_prefer512_call_avx512_legal512_prefer512
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
  ; IS__CGSCC_OPM-NEXT: bb:
  ; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(8 x i64)* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readable align 64 dereferenceable(64) [[TMP]])

; IS__CGSCC_OPM-NEXT:    [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:    store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:    ret void

; IS__CGSCC_NPM-LABEL: define ((([^@]+)) @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT:    bb:
; IS__CGSCC_NPM-NEXT:      [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:      [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:      [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:      call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:      call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull read only align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:      [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:      store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:      ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* %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 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}} @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull read only align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:    [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:    store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:    ret void

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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
}

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
}

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
}
define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__UNIT_NPM-NEXT: bb:
; IS__UNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__UNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__UNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__UNIT_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nunnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__UNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[ARG]], align 2)
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[ARG]], align 2)
; IS__CGSCC_NPM-NEXT: ret void

; bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {

; NOT_TUNIT_NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define
{{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {

; IS__TUNIT_OPM-LABEL: define [[[^@]+]]@avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
; IS__TUNIT_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_preference512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP4]], align 64
; IS__TUNIT_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT:  ret void
;
; IS__TUNIT_NPM-LABEL: define {[^@]+}@avx512_legal512_prefer256_call_avx512_legal512_preference512
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:  [[TMP:%.*]] = bitcast <8 x i64>* [[ARG]] to i8*
; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_preference512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[ARG]])
; IS__TUNIT_NPM-NEXT:  ret void
;
; IS__CGSCC_OPM-LABEL: define {[^@]+}@avx512_legal512_prefer256_call_avx512_legal512_preference512
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = bitcast <8 x i64>* [[ARG]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_preference512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[ARG]])
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define {[^@]+}@avx512_legal512_prefer256_call_avx512_legal512_preference512
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = bitcast <8 x i64>* [[ARG]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_preference512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* [[ARG]])
; IS__CGSCC_NPM-NEXT:  ret void
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
  bb:
    %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define internal fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %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_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
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) #3 {
  bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_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
}

define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* %arg1) #4 {
  bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_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
}

define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #5 {
  bb:
    %tmp = alloca <8 x i64>, align 32
    %tmp2 = alloca <8 x i64>, align 32
    %tmp3 = bitcast <8 x i64>* %tmp to i8*
    call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
    call fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
        bb:
            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__UNIT_OPM-LABEL: define {[^@]+} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; 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 nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__UNIT_OPM-NEXT: call fastcc void
@calleee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nofree readonly align 64 dereferenceable(64) [[TMP]])
; 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-LABEL: define {[^@]+} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__UNIT_NPM-NEXT: bb:
; IS__UNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__UNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__UNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__UNIT_NPM-NEXT: call fastcc void
@calleee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nofree readonly align 64 dereferenceable(64) [[TMP]])
; IS__UNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__UNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__UNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {[^@]+} @avx512_legal256_prefer256_call_avx512_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void
@calleee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nofree readonly align 64
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 { 
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 { 
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(%arg, %arg1) #3 {
    ;
    ; NOT_TUNIT_NPM-LABEL: define
}
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2Legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2Legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2Legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2Legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2Legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

@callee_avx2_legal256_prefer256_call_avx2Legal512_prefer256

define void @avx2_legal256_prefer256_call_avx2Legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]])
; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nonnull writeonly align 64 dereferenceable(64) [[ARG:.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nfree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP4]], 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_OPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nfree nonnull readonly align 64 dereferenceable(64) [[ARG:.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nfree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nfree nonnull readonly align 64 dereferenceable(64) [[ARG:.*]])
; 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* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>*
%tmp
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
    ...
}

; NOT_TUNIT_NPM-LABEL: define
{[^[@]+]} @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT:   [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:   store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT:   ret void
;
; IS__TUNIT_NPM-LABEL: define {[^[@]+]} @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT:   [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:   store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:   [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:   store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:   ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
    ...
}

; IS__TUNIT_OPM-LABEL: define {[^[@]+]} @avx2_legal512_prefer256_call_avx2_legal256_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT:   [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_OPM-NEXT:   store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_OPM-NEXT:   [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_OPM-NEXT:   store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_OPM-NEXT:   ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

dereferenceable(64) [[TMP]]
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; Function Attrs: argmemonly nounwind
declare void @llvm.memset.p0i8.i64(i8* nocapture writeonly, i8, i64, i1) #5

attributes #0 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="512" }
attributes #1 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #2 = { inlinehint norecurse nounwind uwtable "target-features"="+avx512vl" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #3 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="512" "prefer-vector-width"="256" }
attributes #4 = { inlinehint norecurse nounwind uwtable "target-features"="+avx2" "min-legal-vector-width"="256" "prefer-vector-width"="256" }
attributes #5 = { argmemonly nounwind }
; 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)
; 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
; 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>* %arg
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
; CHECK-LABEL: define {{[^@]+}}@avx512_legal512_prefer512_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[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
; 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
}

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>* [[TMP4]], 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
}
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 = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg,
<8 x i64>* readonly %arg1) #0 {
; CHECK-LABEL: define {{[^@]+}}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; CHECK-SAME: (<8 x i64>* [[ARG:%.*]], <8 x i64> [[ARG1_VAL:%.*]])
; CHECK-NEXT: bb:
define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
    bb:
    ;CHECK-NEXT:   %tmp = load <8 x i64>, <8 x i64>* %arg1
    store <8 x i64> %tmp, <8 x i64>* %arg
    ret void
}
define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* %arg1) #1 {
    ;CHECK-LABEL: define internal fastcc void @callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ;CHECK-SAME: ("<8 x i64>* [[ARG:%.*]], <8 x i64>* [[ARG1:%.*]][[ARG1:%.*]])
    ;CHECK-NEXT: bb:
    CHECK-NEXT:   %tmp = load <8 x i64>, align 32
    CHECK-NEXT:   %tmp2 = load <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_legal512_prefer512(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    CHECK-NEXT:   %tmp4 = load <8 x i64>, align 32
    CHECK-NEXT:   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 internal fastcc void @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>, align 32
    CHECK-NEXT:   %tmp2 = load <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_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
    CHECK-NEXT:   %tmp4 = load <8 x i64>, align 32
    CHECK-NEXT:   store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
    ret void
}
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: [[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 @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  
;
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_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 = load <8 x i64>, <8 x i64>* %arg  
store <8 x i64> %tmp, <8 x i64>* %arg  
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {  
; CHECK-LABEL: define ({{[^@]*}})@avx512_legal512_prefer256_call_avx512_legal512_prefer256
define fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg1, <8 x i64>* %arg) #3 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg1, <8 x i64>* %arg)
  %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>* %arg1, <8 x i64>* %arg) #3 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg1, <8 x i64>* %arg)
  %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 @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
  call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}
; CHECK-NEXT: call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(8 x i64)* [[TMP2]], <8 x i64>* [[TMP3]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

; bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8* call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false) call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* %tmp2, <8 x i64>* %tmp
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32 store <8 x i64> %tmp4, <8 x i64>* %arg, align 2 ret void

; This should promote
define internal fastcc void @callee_avx2legal512_prefer256_call_avx2legal512_prefer256(8 x i64)* %arg, <8 x i64>* readonly %arg1) #4 {
; CHECK-LABEL: define internal [[^@]+])@callee_avx2legal512_prefer256_call_avx2legal512_prefer256
; 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 @avx2_legal512_prefer256_call_avx2_legal512_prefer256(8 x i64)* %arg) #3 {
; CHECK-LABEL: define internal [[^@]+])@avx2_legal512_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* call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP:.*]] = load <8 x i64>, <8 x i64>* [[TMP2]] call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(8 x i64)* [[TMP2]], <8 x i64>* [[TMP3]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void


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%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
    %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
}

; 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 {
    %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
}
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]]
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal256_prefer256(i32 %x, i32 %y) {
    %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% x, i32% y) {
    %A = load i32, i32* %x
    %B = load i32, i32* %y
    %C = add i32 %A, %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 = { argmemonly nounwind }

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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,AVX512VL256
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,AVX512VL512
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC256,SKX256
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,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
define void @sext256() {
    ; SE256-LABEL: sext256
    ; SE256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <8 x i8> undef to <8 x i16>
    ; SE256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
    ;
    ; SE256-LABEL: sext256
    ; SE256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i16> undef to <8 x i64>
    ; SE256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i32> undef to <8 x i64>
    ; SE256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <16 x i8> undef to <16 x i32>
    ; SE256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i16> undef to <16 x i32>
    ; SE256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <32 x i8> undef to <32 x i16>
    ; SE256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
}

define void @sext256() {
    ; 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>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

define void @sext512() "min-legal-vector-width"="512" {
    %A = sext <8 x i8> undef to <8 x i64>
    %B = sext <8 x i16> undef to <8 x i64>
    %C = sext <8 x i32> undef to <8 x i64>
    %D = sext <16 x i8> undef to <16 x i32>
    %E = sext <16 x i16> undef to <16 x i32>
    %F = sext <32 x i8> undef to <32 x i16>
    ret void
}

define void @sext128() "min-legal-vector-width"="128" {
    %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 @sext64() "min-legal-vector-width"="64" {
    %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
}
Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>

Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>

Cost Model: Found an estimated cost of 3 for instruction: %F = sext <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 = sext <8 x i8> undef to <8 x i64>

Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>

Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>

Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>

Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>

Cost Model: Found an estimated cost of 3 for instruction: %F = sext <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 = sext <8 x i8> undef to <8 x i64>

Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>

Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>

Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>

Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>

Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
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 <16 x i16>
define i32 @zext256_vXi1() "min-legal-vector-width"="256" {  
  ; 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  
  
  ; AVX-LABEL: 'zext256_vXi1'  
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>  

}
AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
AVX-NEXT: Cost Model: Found an estimated cost of 3 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 1 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
AVX512VL256-LABEL: 'zext256_vXi1'
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef 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 5 for instruction: %V16i16 = zext <16 x i1> undef to <16 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>
; 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: %V16i64 = zext <16 x i1> undef to <16 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i64 = zext <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i64 = zext <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V128i64 = zext <128 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i128 = zext <2 x i1> undef to <2 x i128>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i128 = zext <4 x i1> undef to <4 x i128>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i128 = zext <8 x i1> undef to <8 x i128>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i128 = zext <16 x i1> undef to <16 x i128>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i128 = zext <32 x i1> undef to <32 x i128>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V64i128 = zext <64 x i1> undef to <64 x i128>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V128i128 = zext <128 x i1>
def to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V8i8 = zext <8 x i1> undef to <8 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i8 = zext <16 x i1> undef to <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i8 = zext <32 x i1> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 19 for instruction: %V64i8 = zext <64 x i1> undef to <64 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'zext256_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext <2 x i1> undef to <2 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 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: %V2i16 = zext <2 x i1> undef to <2 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = zext <2 x i1> undef to <2 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = zext <4 x i1> undef to <4 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = zext <8 x i1> undef to <8 x 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>
; 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: %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: %V16i32 = zext <16 x i1> undef to <16 x i32>
; 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: %V16i16 = zext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i16 = zext <32 x i1> undef to <32 x i16>
; 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 2 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>

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; 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>
; 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: %I32 = sext i1 undef to i32
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> undef to <2 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> undef to <4 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i32 = sext <16 x i1> undef to <16 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 undef to i16
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> undef to <2 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> undef to <4 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = sext <32 x i1> undef to <32 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 undef to i8
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> undef to <2 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = sext <4 x i1> undef to <4 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = sext <8 x i1> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i8 = sext <16 x i1> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i8 = sext <32 x i1> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = sext <64 x i1> undef to <64 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; %I64 = sext i1 undef to i64
%V2i64 = sext <2 x i1> undef to <2 x i64>
%V4i64 = sext <4 x i1> undef to <4 x i64>
%V8i64 = sext <8 x i1> undef to <8 x i64>
%I32 = sext i1 undef to i32
%V2i32 = sext <2 x i1> undef to <2 x i32>
%V4i32 = sext <4 x i1> undef to <4 x i32>
%V8i32 = sext <8 x i1> undef to <8 x i32>
%V16i32 = sext <16 x i1> undef to <16 x i32>
%I16 = sext i1 undef to i16
%V2i16 = sext <2 x i1> undef to <2 x i16>
%V4i16 = sext <4 x i1> undef to <4 x i16>
%V8i16 = sext <8 x i1> undef to <8 x i16>
%V16i16 = sext <16 x i1> undef to <16 x i16>
%V32i16 = sext <32 x i1> undef to <32 x i16>
%I8 = sext i1 undef to i8
%V2i8 = sext <2 x i1> undef to <2 x i8>
%V4i8 = sext <4 x i1> undef to <4 x i8>
%V8i8 = sext <8 x i1> undef to <8 x i8>
%V16i8 = sext <16 x i1> undef to <16 x i8>
%V32i8 = sext <32 x i1> undef to <32 x i8>
%V64i8 = sext <64 x i1> undef to <64 x i8>
ret i32 undef
}
define i32 @trunc_vXi1() "min-legal-vector-width"="256" {
    ; AVX-LABEL: 'trunc_vXi1'
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 46 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = trunc <8 x i32> undef to <8 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = trunc <16 x i32> undef to <16 x i1>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
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; AVX-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 18 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

; AVX512VL256-LABEL: 'trunc_vXi1'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 22 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 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: %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 8 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 8 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>

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; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 14 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 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 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2
; 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 i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef

%V2i64 = trunc <2 x i64> undef to <2 x i1>
%V4i64 = trunc <4 x i64> undef to <4 x i1>
%V8i64 = trunc <8 x i64> undef to <8 x i1>
%V16i64 = trunc <16 x i64> undef to <16 x i1>
%V32i64 = trunc <32 x i64> undef to <32 x i1>
%V64i64 = trunc <64 x i64> undef to <64 x i1>
%V2i32 = trunc <2 x i32> undef to <2 x i1>
%V4i32 = trunc <4 x i32> undef to <4 x i1>
%V8i32 = trunc <8 x i32> undef to <8 x i1>
%V16i32 = trunc <16 x i32> undef to <16 x i1>

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%V32i32 = trunc <32 x i32> undef to <32 x i1>
%V64i32 = trunc <64 x i32> undef to <64 x i1>

%V2i16 = trunc <2 x i16> undef to <2 x i1>
%V4i16 = trunc <4 x i16> undef to <4 x i1>
%V8i16 = trunc <8 x i16> undef to <8 x i1>
%V16i16 = trunc <16 x i16> undef to <16 x i1>
%V32i16 = trunc <32 x i16> undef to <32 x i1>
%V64i16 = trunc <64 x i16> undef to <64 x i1>

%V2i8 = trunc <2 x i8> undef to <2 x i1>
%V4i8 = trunc <4 x i8> undef to <4 x i1>
%V8i8 = trunc <8 x i8> undef to <8 x i1>
%V16i8 = trunc <16 x i8> undef to <16 x i1>
%V32i8 = trunc <32 x i8> undef to <32 x i1>
%V64i8 = trunc <64 x i8> undef to <64 x i1>

ret i32 undef
}

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1.629 x-text 0.3.0

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* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources.jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
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* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources.jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
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* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources.jar/org/springframework/context/ApplicationEvent.java
* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources.jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
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jar/org/springframework/format/datetime/standard/Jsr310DateTimeFormatAnnotationFormatterFactory.java
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/**
* Abstract the invocation of a cache operation.
* 
* <p>Does not provide a way to transmit checked exceptions but
* provide a special exception that should be used to wrap any
* exception that was thrown by the underlying invocation.
* Callers are expected to handle this issue type specifically.
* 
* @author Stephane Nicoll
* @since 4.1
*/

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jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java

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* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-
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/**
 * [@link FactoryBean] that obtains a WebSphere [@link javax.management.MBeanServer]
 * reference through WebSphere's proprietary [@code AdminServiceFactory] API,
 * available on WebSphere 5.1 and higher.
 *
 * <p>Exposes the [@code MBeanServer] for bean references.
This [code FactoryBean] is a direct alternative to [link MBeanServerFactoryBean], which uses standard JMX 1.2 API to access the platform's [link MBeanServer].

See the javadocs for WebSphere's

See the javadocs for WebSphere's

[link AdminServiceFactory] and [link MBeanFactory].

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

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* Indicates that a component is only eligible for registration when all
  [@linkplain #value specified conditions] match.

A <em>condition</em> is any state that can be determined programatically
before the bean definition is due to be registered (see [@link Condition] for details).

The [code @Conditional] annotation may be used in any of the following ways:
* <ul>
  * <li>as a type-level annotation on any class directly or indirectly annotated with
  * [{@code @Component}], including [{@link Configuration @Configuration}] classes</li>
  * <li>as a meta-annotation, for the purpose of composing custom stereotype
  * annotations</li>
  * <li>as a method-level annotation on any [{@link Bean @Bean}] method</li>
  * </ul>

* <p>If a [{@code @Configuration}] class is marked with [{@code @Conditional}],
* all of the [{@code @Bean}] methods, [{@link Import @Import}] annotations, and
* [{@link ComponentScan @ComponentScan}] annotations associated with that
* class will be subject to the conditions.
* 
* <p><strong>NOTE</strong>: Inheritance of [{@code @Conditional}] annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* [{@code @Conditional}] itself is not declared as
* [{@link java.lang.annotation.Inherited @Inherited}]; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* [{@code @Conditional}] must not be declared as [{@code @Inherited}].
* 
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/

Found in path(s):
* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-
  jar/org/springframework/context/annotation/Conditional.java
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* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-jar/org/springframework/context/annotation/ConfigurationMethod.java
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* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-jar/org/springframework/context/support/ApplicationContextInitializer.java
* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-jar/org/springframework/context/support/SimpleThreadScope.java
* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-jar/org/springframework/context/annotation/Configuration.java
* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-jar/org/springframework/context/support/AbstractRefreshableApplicationContext.java
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* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-jar/org/springframework/context/annotation/FilterType.java
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  jar/org/springframework/jmx/export/metadata/ManagedOperationParameter.java
* /opt/cola/permits/1148544980_1617703650.3/0/spring-context-5-3-5-sources-
  jar/org/springframework/remoting/support/RemoteInvocationExecutor.java
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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.639 xorm.io-core 0.7.3

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1.640 otel-exporters-otlp 0.20.0

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1.641 go-uber-org-multierr 1.6.0

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1.643 pac4j-core 4.5.0

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Build-Jdk-Spec: 11
Automatic-Module-Name: pac4j.core
Bnd-LastModified: 1619598374338
Bundle-Description: Profile & Authentication Client for Java
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: pac4j core
Bundle-SymbolicName: org.pac4j.core
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1.645 pierrec-lz4 2.3.0+incompatible

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1.646 asm 5.0.4

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  jar/org/objectweb/asm/xml/SAXAdapter.java
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  jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
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  jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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  jar/org/objectweb/asm/xml/ASMContentHandler.java
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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()}). May be
 * <tt>null</tt>.
 * @throws IllegalStateException
 * If a subclass calls this constructor.
 */

Found in path(s):
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5.0.4-sources-6-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java

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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.
*/

Found in path(s):
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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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 */
/**
 * 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
null if the annotation targets 'typeRef' as a whole.

* @param start
  * the fist instructions corresponding to the continuous ranges
  * that make the scope of this local variable (inclusive).

* @param end
  * the last instructions corresponding to the continuous ranges
  * that make the scope of this local variable (exclusive). This
  * array must have the same size as the 'start' array.

* @param index
  * the local variable's index in each range. This array must have
  * the same size as the 'start' array.

* @param desc
  * the class descriptor of the annotation class.

*/

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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/BasicValue.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/Interpreter.java
* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/InsnNode.java
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* /opt/cola/permits/1135863767_1613617914.89/0/asm-5-0-4-sources-6-jar/org/objectweb/asm/tree/StackMap.frame.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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  jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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1.647 gorilla 1.7.4

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lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
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#
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#
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1.649 libassuan 2.5.5-r0

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1.657 prometheus-common 0.29.0

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# Contributions to the urllib3 project

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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/@WBRSRBZDhBFXQB6/>
  * Code review, PEP8 compliance, benchmark fix

* kennethreitz <me@kennethreitz.com>
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  * IPv6 url support and test coverage

* Shivaram Lingamneni &lt;slngamn@cs.stanford.edu&gt;
  * Support for explicitly closing pooled connections

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  * Support for TLS SNI
  * API unification of ssl_version/cert_reqs
  * SSL fingerprint and alternative hostname verification
  * Bugfixes in testsuite

* Sune Kirkeby &lt;mig@ibofoi.dk&gt;
  * Optional SNI-support for Python 2 via PyOpenSSL.

* Marc Schlaich &lt;marc.schlaich@gmail.com&gt;
  * Various bugfixes and test improvements.

* Bryce Boe &lt;bbzbryce@gmail.com&gt;
  * Correct six.moves conflict
  * Fixed pickle support of some exceptions

* Boris Figovsky &lt;boris.figovsky@ravelosystems.com&gt;
  * Allowed to skip SSL hostname verification

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

* Jason Robinson &lt;jaywink@basshero.org&gt;
  * Add missing WrappedSocket.fileno method in PyOpenSSL

* Audrius Butkevicius &lt;audrius.butkevicius@elastichosts.com&gt;
  * Fixed a race condition

* Stanislav Vitkovskiy &lt;stas.vitkovsky@gmail.com&gt;
  * Added HTTPS (CONNECT) proxy support

* Stephen Holsapple &lt;sholsapp@gmail.com&gt;
  * 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 vendoring

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

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

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

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

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

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

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

* Katsuhiko YOSHIDA <https://github.com/kyoshidajp>
  * Remove Authorization header regardless of case when redirecting to cross-site
* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header

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

* 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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1.659 x-net 0.0.0-20190724013045-ca1201d0de80

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1.660 errors 0.9.1

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**1.667 go 1.16.5**

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1.668 gophercloud 0.10.1-0.20200424014253-c3bfe50899e5
1.668.1 Available under license :

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 {
        }
    }
}
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](/.github/CONTRIBUTING.md) guide again as a refresh. Notably the [Getting Started](/.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/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

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:

```
```
```
$ 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:

```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 -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).

```go
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 =`
{
}
`
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, "PUT")
        th.TestHeader(t, r, "X-Auth-Token", client.TokenID)

        w.WriteHeader(http.StatusNoContent)
    })
}
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.
fun
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
    _, r.Err = client.Get(getURL(client, id), 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)
}
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()
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 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.
/*
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 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.
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:

* https://github.com/gophercloud/gophercloud/issues/108
* https://github.com/gophercloud/gophercloud/issues/212
* https://github.com/gophercloud/gophercloud/issues/424
* https://github.com/gophercloud/gophercloud/issues/588
* https://github.com/gophercloud/gophercloud/issues/629
* https://github.com/gophercloud/gophercloud/issues/647

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
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](https://github.com/gophercloud/gophercloud/issues/749) 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 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).

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"

```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"

    AvailabilityZoneHints []string `json:"availability_zone_hints"
}
```
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.

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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>.
 */

Found in path(s):
 /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/base64/Base64Dialect.java
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/**
* Utility class for [ @link ByteBuf ] that encodes and decodes to and from
* [ a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
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jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
jar/io/netty/handler/codec/EncoderException.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
jar/io/netty/handler/codec/marshalling/MarshallerProvider.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
jar/io/netty/handler/codec/marshalling/package-info.java
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*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/DateFormatter.java
*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/DatagramPacketDecoder.java
*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
*/opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.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.

[@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 \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.

<pre>
* \textbf{lengthFieldOffset}   = 0
* \textbf{lengthFieldLength}  = 2
* \textbf{lengthAdjustment}   = 0
* \textbf{initialBytesToStrip} = 0 (= do not strip header)
</pre>

BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

<table>
<thead>
<tr>
<th>Length</th>
<th>Actual Content</th>
<th>Length</th>
<th>Actual Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>0x0000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
<td>0x0000C</td>
<td>&quot;HELLO, WORLD&quot;</td>
</tr>
</tbody>
</table>

<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 \texttt{initialBytesToStrip}. In this example, we specified \texttt{2}, that is same with the length of the length field, to strip the first two bytes.

<pre>
* \textbf{lengthFieldOffset} = 0
* \textbf{lengthFieldLength} = 2
* \textbf{lengthAdjustment} = 0
* \textbf{initialBytesToStrip} = 2 (= 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>
*
* <tt>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</tt>
*
* 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
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* <b>lengthAdjustment</b> = -2 (= the length of the Length field)
* initialBytesToStrip = 0
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+ 
* </pre>
*
* <tt>3 bytes length field at the end of 5 bytes header, do not strip header</tt>
*
* 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> = 2 (= the length of Header 1)
* <b>lengthFieldLength</b> = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0
* 
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
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.

```
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" |
+----------+----------+----------------+      +----------+----------+----------------+
```

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
`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 `<tt>0</tt>` for `<tt>initialBytesToStrip</tt>`.

```
lengthFieldOffset   = 1 (= the length of HDR1)
lengthFieldLength   = 2
lengthAdjustment    = 1 (= the length of HDR2)
initialBytesToStrip = 3 (= the length of HDR1 + LEN)
```

```
BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
+-------------------+--------+----------------+      +-------------------+--------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+-------------------+--------+----------------+      +-------------------+--------+----------------+
```

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
`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 `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
+-------------------+--------+----------------+      +-------------------+--------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
+-------------------+--------+----------------+      +-------------------+--------+----------------+
```

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
`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 `<tt>0</tt>` for `<tt>initialBytesToSkip</tt>`.

```
BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
+-------------------+--------+----------------+      +-------------------+--------+----------------+
| HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
| 0xCA | 0x000C | 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 \texttt{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.

\begin{verbatim}
  lengthFieldOffset  = 1
  lengthFieldLength  = 2
  \texttt{lengthAdjustment}    = \texttt{-3} (= the length of HDR1 + LEN, negative)
  \texttt{initialBytesToStrip} = \texttt{3}

  BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
  +-------------------+    +-------------------+
  | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
  | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
  +-------------------+    +-------------------+
\end{verbatim}

@see LengthFieldPrepender

*/

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  jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
  jar/io/netty/handler/codec/UnsupportedValueConverter.java
* /opt/ws_local/PERMITS_SQL/1093815845_1601014627.54/0/netty-codec-4-1-52-final-sources-
1.670 go 1.16.8

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1.672 spring-security-crypto 5.4.2
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* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-jar/org/springframework/security/crypto/password/AbstractPasswordEncoder.java
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* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1.jar/org/springframework/security/crypto/factory/PasswordEncoderFactories.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1.jar/org/springframework/security/crypto/password/PasswordEncoderUtils.java
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 * implementation (version 2.3.7). See <a href="http://iharder.sourceforge.net/current/java/base64/"/>http://iharder.sourceforge.net/current/java/base64/</a>
 * for more information.
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 *
 * @author Luke Taylor
 * @since 3.0
 * @deprecated Use java.util.Base64
 */

Found in path(s):
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-jar/org/springframework/security/crypto/codec/Base64.java

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* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/password/DelegatingPasswordEncoder.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/keygen/KeyGenerators.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/encrypt/BouncyCastleAesCbcBytesEncryptor.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/encrypt/TextEncryptor.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/encrypt/StandardPasswordEncoder.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
* /opt/cola/permits/1136173465_1614710473.26/0/spring-security-crypto-5-4-2-sources-1-
  jar/org/springframework/security/crypto/encrypt/NoOpPasswordEncoder.java

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Manifest-Version: 1.0
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Build-Date: ${timestamp}
Bundle-SymbolicName: com.nimbusds.nimbus-jose-jwt
Build-Number: ${buildNumber}
Built-By: vd
Bnd-LastModified: 1600107665517
Specification-Title: Nimbus JOSE+JWT
Implementation-Vendor-Id: com.nimbusds
Bundle-DocURL: http://connect2id.com

Open Source Used In Crosswork Platform Infrastructure cw-infra-4.1.0-dockerimages-clean 5034
Bundle-Name: Nimbus JOSE+JWT
Build-Tag: 8.20.1
Implementation-Title: Nimbus JOSE+JWT
Bundle-Description: Java library for Javascript Object Signing and Encryption (JOSE) and JSON Web Tokens (JWT)
Automatic-Module-Name: com.nimbusds.jose.jwt
Implementation-Version: 8.20.1
Specification-Vendor: Connect2id Ltd.
Bundle-ManifestVersion: 2
Bundle-Vendor: Connect2id Ltd.
Tool: Bnd-2.3.0.201405100607
Implementation-Vendor: Connect2id Ltd.
Bundle-Version: 8.20.1
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_265
Specification-Version: 8.20.1
Implementation-URL: https://bitbucket.org/connect2id/nimbus-jose-jwt
1.674 inf 0.9.0

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1.675 go-runewidth 0.0.9

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1.676 pyparsing 2.4.7

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 */

Found in path(s):
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/spi/service/ServiceProvider.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/event/package-info.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/spi/service/Service.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/UserManagedCache.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/expiry/Expirations.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/config/units/EntryUnit.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/config/SizedResourcePool.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/spi/service/ServiceDependencies.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/expiry/Duration.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/event/CacheEvent.java
* /opt/cola/permits/1135872726_1613620740.71/0/ehcache-api-3-8-1-sources-1-jar/org/ehcache/spi/loaderwriter/BulkCacheLoadingException.java
1.679 prometheus-common 0.21.0

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1.680 py3-webencodings 0.5.1-r4

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```python
webencodings.mklabels
~~~~~~~~~~~~~~~~~~~~~

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 = [""
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except ImportError:
    from urllib.request import urlopen

def assert_lower(string):
    assert string == string.lower()
    return string

def generate(url):
    parts = [""
```
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/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/webencodings/mklabels.py
No license file was found, but licenses were detected in source scan.

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()).group(1)

LONG_DESCRIPTOR = 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/1174847361_1630481812.81/0/python-webencodings-0-5-1-orig-1-tar-gz/webencodings-0.5.1/setup.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
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* Python 2.6+ and 3.3+

---

Open Source Used In Crosswork Platform Infrastructure cw-infra-4.1.0-dockerimages-clean 5048
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 Python.

Platform: UNKNOWN
Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
Classifier: License :: OSI Approved :: BSD License
Classifier: Programming Language :: Python
Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.3
Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

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This is a Python implementation of the `WHATWG Encoding standard <http://encoding.spec.whatwg.org/>`_.

* Latest documentation: http://packages.python.org/webencodings/
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* 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.

Found in path(s):

* /opt/cola/permits/1174847361_1630481812.81/0/python-webencodings-0.5.1-orig-1-tar-gz/webencodings-0.5.1/README.rst

1.681 zookeeper-jute 3.5.8

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* /opt/cola/permits/1136173493_1613694111.13/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/backoff/BackOffInterruptedException.java
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* /opt/cola/permits/1136173493_1613694111.13/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/stats/RetryStatisticsFactory.java
* /opt/cola/permits/1136173493_1613694111.13/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/stats/DefaultRetryStatistics.java
* /opt/cola/permits/1136173493_1613694111.13/0/spring-retry-1-3-1-sources-
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  jar/org/springframework/classify/BinaryExceptionClassifierBuilder.java
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  jar/org/springframework/classify/util/MethodInvokerUtils.java
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* /opt/cola/permits/1136173493_1613694111.13/0/spring-retry-1-3-1-sources-jar/org/springframework/retry/annotation/EnableRetry.java
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jar/org/springframework/retry/interceptor/Retryable.java
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jar/org/springframework/classify/util/SimpleMethodInvoker.java
* /opt/cola/permits/1136173493_1613694111.13/0/spring-retry-1-3-1-sources-
jar/org/springframework/retry/interceptor/RetryInterceptorBuilder.java
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jar/org/springframework/retry/backoff/ExponentialRandomBackOffPolicy.java
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* /opt/cola/permits/1136173493_1613694111.13/0/spring-retry-1-3-1-sources-jar/org/springframework/classify/util/AnnotationMethodResolver.java
* /opt/cola/permits/1136173493_1613694111.13/0/spring-retry-1-3-1-sources-jar/org/springframework/classify/util/MethodInvoker.java
* /opt/cola/permits/1136173493_1613694111.13/0/spring-retry-1-3-1-sources-jar/org/springframework/classify/util/MethodResolver.java
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/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/ArraySort.java
/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/RAFile.java
/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestCacheSize.java
/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/HsqlArrayHeap.java
/hsqldb-2-5-1-sources-jar/org/hsqldb/scriptio/ScriptReaderDecode.java
/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/BitMapCachedObject.java
/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/HsqlArrayHeap.java
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/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestGroupByHaving.java
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/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestViewAsterisks.java
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/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/HsqlArrayHeap.java
/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestDataStructures.java
/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/BitMapCachedObject.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/JDBCColumnMetaData.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/RangeVariableJoined.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/rowio/RowOutputTextLog.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/HashMap.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/IntKeyIntValueHashMap.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestDateTime.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestDbBackup.java
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* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/RowInsertVersioning.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/CachedObjectBase.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/test/AllTests.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/JDBCArrayBasic.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/BasicTextJdkLogFormatter.java
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* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/map/ReusableObjectCache.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/ThreadFactory.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/Notified.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/InformixTransferHelper.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/LongValueHashMap.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/rowio/RowOutputBase.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestSubselect.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/JDBCPooledConnection.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/JDBCCommonDataSource.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/pool/JDBCPooledConnection.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/JDBCParameterMetaData.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/pool/JDBCXAResource.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/ConnectionDialog.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/types/TimestampData.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/types/BlobType.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/HsqlDeque.java
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- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/map/ValuePool.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/util/TransferResultSet.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/RowAVLDiskData.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/util/SqlServerTransferHelper.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/pool/JDBCXAConnection.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/RAStrorageWrapper.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/ColumnBase.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/test/ClearTests.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/RAFileInJar.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestTrigger.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestInstantiation.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/server/ServerAcl.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb-2-5-1-sources-jar/org/hsqldb/types/JavaObjectData.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb/test/TestUpdatableResultSets.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb/test/TestBench.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb/test/TestSubQueriesInPreparedStatements.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb/test/TestConnectionHTTP.java
- /opt/cola/permits/1142016881_1615265878.49/hsqldb/types/IntervalSecondData.java
jar/org/hsqldb/persist/PersistentStoreCollectionDatabase.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/TextFileReader16.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/RowInsertSimple.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/server/HSqlSocketRequestHandler.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/server/HSqlSocketFactorySecure.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/types/TypedComparator.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/RefCapableRBInterface.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/trigger/Trigger.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/server/ServerConfiguration.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/LobStore.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/RAFileHybrid.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/RAFileNIO.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/CountdownInputStream.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/rowio/RowInputBinary.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/pool/JDBCXAConnectionWrapper.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/types/JavaObjectDataInternal.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/AppendableException.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/DataAccessPointException.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/result/ResultConstants.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/JDBCDataSource.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/ExpressionAccessor.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/rowio/RowOutputBinary180.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/LobStoreRAFile.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestStoredProcedure.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestStoredProcedure.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/DatabaseURL.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/LineReader.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/StatementCursor.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestBase.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestMultiInsert.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/rights/GrantConstants.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/result/ResultProperties.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/JDBCSavepoint.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/types/IntervalMonthData.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/server/WebServer.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/test/TestJDBCGeneratedColumns.java

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\? lists Special Commands.
:? lists Edit-Buffer/History commands.
*? lists PL commands.
/? displays help on how to set and use macros (incl. functions).

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PROCEDURAL LANGUAGE commands begin with "*" and end when you hit ENTER.
MACRO executions and definitions begin with '/' and end when you hit ENTER.
All other lines comprise SQL Statements (or comments).
SQL Statements are terminated by either unquoted ':' (which executes the statement), or a blank line (which moves the statement into the edit buffer without executing).
After turning on variable expansion with command "*" (or any other PL command), PL variables may be used in most commands like so: *{PLVARNAME}.
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* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources.jar/org/hsqldb/RowDiskDataChange.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources.jar/org/hsqldb/navigator/RowSetNavigatorData.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources.jar/org/hsqldb/SchemaObject.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources.jar/org/hsqldb/persist/BlockObjectStore.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources.jar/org/hsqldb/types/CharacterType.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources.jar/org/hsqldb/index/IndexStats.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources.jar/org/hsqldb/lib/DoubleIntIndex.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources.jar/org/hsqldb/scriptio/ScriptReaderText.java
jar/org/hsqldb/persist/DataFileCacheSession.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/FunctionValueUser.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/OpTypes.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/persist/RowStoreDataChange.java
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/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/index/IndexAVLCheck.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/scriptio/ScriptWriterText.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/navigator/RowSetNavigatorDataChange.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/server/OdbcPacketInputStream.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/Constraint.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/tar/PIFGenerator.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/TransactionManager.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/DoubleLongIndex.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/LongLookup.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/QuerySpecification.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/ FileAccess.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/lib/TestCollation.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/types/BlobDataID.java
*/
/opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/result/ResultMetaData.java
*/
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*/
/**
* provides cross-package access to the proprietary (i.e. non-JDBC)
* HSQLDB session interface. <P>
*
* @return the underlying sessionProxy for this connection
*/

Found in path(s):
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/jdbc/JDBCConnection.java
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*/
/* These are commands which may contain nested commands and/or which
 * require the closing semicolon to send to the DB engine.
 * The BEGIN and DECLARE needed for PL/SQL probably do not need to
 * terminate the line, as we have it specified here, but I'd rather not be
 * too liberal with proprietary SQL like this, because it's easy to
 * envision other proprietary or non-proprietary commands beginning with
 * DECLARE or BEGIN. */

Found in path(s):
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/cmdline/sqltool/SqlFileScanner.java
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* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/DatabaseManagerCommon.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/index/NodeAVL.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/Like.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/TransferCommon.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/Grid.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/index/IndexAVLMemory.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/Tree.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/CodeSwitcher.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/sample/FindFile.java
* /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/SQLStatements.java
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  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/IResolver.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/Tokenizer.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/Parser.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/Option.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/PreprocessorAntTask.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/PreprocessorException.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/PreprocessorAntResolver.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/PreprocessorDocument.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/Line.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/Defines.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/Preprocessor.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/LineType.java
  * /opt/cola/permits/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/util/preprocessor/Token.java

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 */
/**
 */

/* Comprehensive information about the database as a whole.

This interface is implemented by driver vendors to let users know the capabilities
of a Database Management System (DBMS) in combination with
the driver based on JDBC technology
("JDBC driver") that is used with it. Different relational DBMSs often support
different features, implement features in different ways, and use different
data types. In addition, a driver may implement a feature on top of what the
DBMS offers. Information returned by methods in this interface applies
to the capabilities of a particular driver and a particular DBMS working
together. Note that as used in this documentation, the term "database" is
used generically to refer to both the driver and DBMS.

A user for this interface is commonly a tool that needs to discover how to
deal with the underlying DBMS. This is especially true for applications
that are intended to be used with more than one DBMS. For example, a tool might use the method
<code>getTypeInfo</code> to find out what data types can be used in a
<code>CREATE TABLE</code> statement. Or a user might call the method
* `<code>supportsCorrelatedSubqueries</code>` to see if it is possible to use
  * a correlated subquery or `<code>supportsBatchUpdates</code>` to see if it is
  * possible to use batch updates.
* `<P>`
  * Some `<code>DatabaseMetaData</code>` methods return lists of information
    * in the form of `<code>ResultSet</code>` objects.
  * Regular `<code>ResultSet</code>` methods, such as
    * `<code>getString</code>` and `<code>getInt</code>`, can be used
    * to retrieve the data from these `<code>ResultSet</code>` objects. If
    * a given form of metadata is not available, an empty `<code>ResultSet</code>`
    * will be returned. Additional columns beyond the columns defined to be
    * returned by the `<code>ResultSet</code>` object for a given method
    * can be defined by the JDBC driver vendor and must be accessed
      * by their `<B>column label</B>`.
* `<P>`
  * Some `<code>DatabaseMetaData</code>` methods take arguments that are
    * String patterns. These arguments all have names such as `fooPattern`.
    * Within a pattern String, `"%"` means match any substring of 0 or more
      * characters, and `"_"` means match any one character. Only metadata
      * entries matching the search pattern are returned. If a search pattern
      * argument is set to `<code>null</code>`, that argument's criterion will
      * be dropped from the search.
* `<P>`
  * A method that gets information about a feature that the driver does not
    * support will throw an `<code>SQLException</code>`.
  * In the case of methods that return a `<code>ResultSet</code>`
    * object, either a `<code>ResultSet</code>` object (which may be empty) is
    * returned or an `<code>SQLException</code>` is thrown.
* `<P>`

* ![start release-specific documentation -->]
  * `<div class="ReleaseSpecificDocumentation">`
  * `<h3>HSQldb-Specific Information:</h3>`
  * `<h4>Metadata Table Production</h4>`
  *
  * Starting with HSQLDB 1.7.2, the metadata table (a.k.a system table) production
    * implementation provided in the default build filters metadata based on each
    * SQL session user's access rights which in turn lifts the pre-HSQLDB 1.7.2
    * restriction that only users with the DBA role
    * ('admin' users in older HSQLDB parlance) could expect trouble-free access to
    * all metadata.<p>
  * Also starting with HSQLDB 1.7.2, the metadata table production implementation
    * classes are loaded dynamically, using a precedence policy to find and load
      * the richest producer available at runtime. In the event that no better
      * alternative is found, the default minimal (completely restricted) provider
      * is selected. Under this scheme, it is possible for third party packagers to
      * create custom distributions targeted at supporting full (design-time),
* custom-written (proprietary / micro environment), minimal (production-time)
* or completely-restricted (space-constrained | device embedded | real-time |
* hostile environment) metadata table production scenarios. To learn more
* about this option, interested parties can review the documentation and source
* code for the <code>org.hsqldb.dbinfo.DatabaseInformation class</code>.<p>
*
* Please also note that in addition to the metadata tables produced to
* directly support this class, starting with HSQLDB 1.7.2, the default build
* provides many additional tables covering all or most HSQLDB features, such
* as descriptions of the triggers and aliases defined in the database.  <p>
*
* For instance, in the default build, a fairly comprehensive description of
* each INFORMATION_SCHEMA table and each INFORMATION_SCHEMA table
* column is included in the REMARKS column of the {[@link #getTables(
* java.lang.String, java.lang.String, java.lang.String, java.lang.String[])
* getTables(...)} and {[@link getColumns(java.lang.String, java.lang.String,
* java.lang.String, java.lang.String) getColumns(...)} results, which derive
* from INFORMATION_SCHEMA.SYSTEM_TABLES and INFORMATION_SCHEMA.SYSTEM_COLUMNS,
* respectively.<p>
*
* Since HSQLDB 2.0 the INFORMATION_SCHEMA views have been vastly expanded
* in compliance with the SQL:2011 Standard and report the properties of all
* database objects.</p>
*
* <h4>Schema Metadata</h4>
*
* The SQL SCHEMA concept became fully supported in the HSQLDB 1.8.x series and
* this fact is reflected in the all subsequent versions of this class.
*
* <h4>Catalog Metadata</h4>
*
* Starting with HSQLDB 2.0, SQL standards compliance up to SQL:2008 and beyond
* is a major theme which is reflected in the provision of the majority of the
* standard-defined full-name INFORMATION_SCHEMA views.  <p>
*
* However, just as CATALOG semantics and handling are still considered to be
* implementation defined by the most recent SQL standard (SQL:2008), so is the
* HSQLDB CATALOG concept still in the process of being defined and refined in
* HSQLDB 2.x. and beyond.<p>
*
* Previous to HSQLDB 2.x, there were, at various points in time, experimental
* features provided to turn on pseudo catalog (and before that, pseudo-schema)
* reporting in the system tables, using the database properties
* 'hsqldb.catalogs' and 'hsqldb.schemas', respectively.<p>
*
* However, once the engine fully supported the SQL SCHEMA concept, the
* experimental 'hsqldb.schemas' database property was retired.  <p>
Similarly, starting with HSQLDB 2.x, the 'hsqldb.catalogs' database property has been retired and replaced with the convention that, from the perspective of SQL identification, an HSQLDB JDBC URL connects to a single HSQLDB database instance which consists of a single, default CATALOG named PUBLIC in which each SCHEMA instance of the database resides. The name of this catalog can be changed with the ALTER CATALOG &lt;name&gt; RENAME TO statement. As of version 2.1.0, HSQLDB supports qualification by the containing CATALOG of database objects at the syntactic level, but does not yet support operations such as opening, manipulating or querying against multiple database catalogs within a single session, not even in a one-at-a-time fashion.

<h4>Index Metadata</h4>

It must still be noted that as of the most recent release, HSQLDB continues to ignore the <code>approximate</code> argument of {@link #getIndexInfo} as no data is returned for CARDINALITY and PAGES columns.

<h4>Notes for developers extending metadata table production</h4>

Note that in the absence of an ORDER BY clause, queries against the metadata tables that directly support this class are expected to return rows in JDBC contract order. The reason for this is that results typically come back much faster when no &quot;ORDER BY&quot; clause is used. 

As such, when adding, extending or replacing a JDBC database metadata table production routine, developers need to be aware of this fact and either add the contract &quot;ORDER BY&quot; clause to the driving SQL or, when possible, preferably maintain rows in the contract order by correctly coding the primary index definition in the table producer class.

<hr>

(fredt@users)<br>(campbell-burnet@users)
</div>

<!-- end release-specific documentation -->

@author Campbell Burnet (campbell-burnet@users dot sourceforge.net)
@author Fred Toussi (fredt@users dot sourceforge.net)
@version 2.5.0
@since HSQLDB 1.9.0
@see org.hsqldb.dbinfo.DatabaseInformation
*/

Found in path(s):
*/opt/cola/permissions/1142016881_1615265878.49/0/hsqldb-2-5-1-sources-jar/org/hsqldb/hsqldb/JDBCDatabaseMetaData.java
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- /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/SslCloseCompletionEvent.java
- /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
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* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/package-info.java
* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java

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* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
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* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java

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* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
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* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
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* /opt/ws_local/PERMITS_SQL/1093815938_1601014541.84/0/netty-handler-4-1-52-final-sources-
  jar/jar/io/netty/handler/address/package-info.java
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  jar/jar/io/netty/handler/address/DynamicAddressConnectHandler.java
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 Licenses["freebsd"] = License{
 Name: "Simplified BSD License",
 PossibleMatches: []string{"freebsd", "simpbsd", "simple bsd", "2-clause bsd",
 "2 clause bsd", "simplified bsd license"},
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func initBsdClause3() {
  Licenses["bsd"] = License{
    Name: "NewBSD",
}
PossibleMatches: ["bsd", "newbsd", "3 clause bsd", "3-clause bsd"],
Header: 'All rights reserved.

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    Licenses["gpl2"] = License{
        Name: "GNU General Public License 2.0",
        PossibleMatches: []string{"gpl2", "gnu gpl2", "gplv2"},
        Header: `This program is free software; you can redistribute it and/or
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        PossibleMatches: []string{"gpl3", "gplv3", "gpl", "gnu gpl3", "gnu gpl"},
        Header: `This program is free software: you can redistribute it and/or modify
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Version 3, 29 June 2007

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package cmd

import (  "strings"  "time"

"github.com/spf13/viper"
)

// Licenses contains all possible licenses a user can choose from.
var Licenses = make(map[string]License)

// License represents a software license agreement, containing the Name of
// the license, its possible matches (on the command line as given to cobra),
// the header to be used with each file on the file's creating, and the text
// of the license
type License struct {  Name string // The type of license in use  PossibleMatches []string // Similar names to guess  Text string // License text data  Header string // License header for source files }

func init() {
// Allows a user to not use a license.
Licenses["none"] = License{"None", ["none", "false"], "", ""}

initApache2()
initMit()
initBsdClause3()
initBsdClause2()
initGpl2()
initGpl3()
initLgpl()
initAgpl()
}

// getLicense returns license specified by user in flag or in config.
// If user didn't specify the license, it returns Apache License 2.0.
//
// TODO: Inspect project for existing license
func getLicense() License {
// If explicitly flagged, use that.
if userLicense != "" {
return findLicense(userLicense)
}

// If user wants to have custom license, use that.
if viper.IsSet("license.header") || viper.IsSet("license.text") {
return License{"header": viper.GetString("license.header"),
"text": viper.GetString("license.text")}
}

// If user wants to have built-in license, use that.
if viper.IsSet("license") {
return findLicense(viper.GetString("license"))
}

// If user didn't set any license, use Apache 2.0 by default.
return Licenses["apache"]
}

func copyrightLine() string {
author := viper.GetString("author")
year := viper.GetString("year") // For tests.
if year == "" {
year = time.Now().Format("2006")
}

return "Copyright " + year + " " + author
// findLicense looks for License object of built-in licenses.
// If it didn't find license, then the app will be terminated and
// error will be printed.
func findLicense(name string) License {
    found := matchLicense(name)
    if found == "" {
        err("unknown license: " + name)
    }
    return Licenses[found]
}

// matchLicense compares the given a license name
// to PossibleMatches of all built-in licenses.
// It returns blank string, if name is blank string or it didn't find
// then appropriate match to name.
func matchLicense(name string) string {
    if name == "" {
        return ""
    }
    for key, lic := range Licenses {
        for _, match := range lic.PossibleMatches {
            if strings.EqualFold(name, match) {
                return key
            }
        }
    }
    return ""
}

package cmd

func initLGPL() {
    Licenses["lgpl"] = License{
        Name: "GNU Lesser General Public License",
        PossibleMatches: []string{"lgpl", "lesser gpl", "gnu lgpl"},
        Header: `This program is free software: you can redistribute it and/or modify
it under the terms of the GNU Lesser General Public License as published by
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```
package cmd

func initAgpl() {
    Licenses["agpl"] = License{
        Name:            "GNU Affero General Public License",
        PossibleMatches: []string{"agpl", "affero gpl", "gnu agpl"},
        Header: `This program is free software: you can redistribute it and/or modify
        it under the terms of the GNU Affero General Public License as published by
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        (at your option) any later version.

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        `,
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    }
}
```
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cpackage cmd
unc initApache2() {
    Licenses["apache"] = License{
        Name: "Apache 2.0",
        PossibleMatches: []string{"apache", "apache20", "apache 2.0", "apache2.0", "apache-2.0"},
        Header: `Licensed under the Apache License, Version 2.0 (the "License");
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package cmd

func initMit() {
    Licenses["mit"] = License{
        Name: "MIT License",
        PossibleMatches: []string{"mit"},
        Header: `Permission is hereby granted, free of charge, to any person obtaining a copy
of this software and associated documentation files (the "Software"), to deal
in the Software without restriction, including without limitation the rights
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@(#) SRCSfile: certdata.txt,v $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

** 1.710 log15 0.0.0-20180818164646-67af8b5ed74ec **

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1.720 otel-sdk-metric 0.20.0

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 */

/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * <p>
 * The encoding and decoding algorithm in this class has been derived from
 * <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
 * Base64 Encoder/Decoder</a>.
 */
Found in path(s):
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
  jar/io/netty/handler/codec/base64/Base64.java
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  jar/io/netty/handler/codec/DefaultHeaders.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
  jar/io/netty/handler/codec/EmptyHeaders.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
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* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Lz4Constants.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/LzfDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/DecoderResultProvider.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2ListDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/AsciiHeadersEncoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/AsciiHeadersDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Crc32.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-
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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.
 *</p>
 *<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)
* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* Because we can get the length of the content by calling
* <tt>ByteBuf#readableBytes()</tt>, 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
* initialBytesToStrip = <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

* 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 <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* initialBytesToStrip = <b>0</b>
* lengthFieldOffset  = <b>0</b>
* lengthFieldLength  = <b>2</b>
* </pre>
* `<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>

* 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>

* 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" |
* +-----------------------------+-----------------------------+
* <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>
* <tt>lengthFieldOffset</tt> = 1 (= the length of HDR1)
* <tt>lengthFieldLength</tt> = 2
* <tt>lengthAdjustment</tt> = <tt>1</tt> (= the length of HDR2)
* <tt>initialBytesToStrip</tt> = <tt>3</tt> (= the length of HDR1 + LEN)
* <tt>pre</tt>
* BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
* +---------------------------------+---------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 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>
* <tt>lengthFieldOffset</tt> = 1
* <tt>lengthFieldLength</tt> = 2
* <tt>lengthAdjustment</tt> = <tt>-3</tt> (= the length of HDR1 + LEN, negative)
* <tt>initialBytesToStrip</tt> = <tt>3</tt>
* <tt>pre</tt>
* BEFORE DECODE (16 bytes)                      AFTER DECODE (13 bytes)
* +---------------------------------+---------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +---------------------------------+---------------+
* </pre>
* *
* @see LengthFieldPrepender
*/
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Found in path(s):
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-jar/io/netty/handler/codec/xml/XmlFrameDecoder.java
* /opt/cola/permits/1112470191_1607093044.21/0/netty-codec-4-1-17-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java

1.725 python-etcd 0.4.5

1.725.1 Available under license :
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Metadata-Version: 1.1
Name: python-etcd
Version: 0.4.5
Summary: A python client for etcd
Home-page: http://github.com/jplana/python-etcd
Author: Jose Plana
Author-email: jplana@gmail.com
License: MIT
Description: python-etcd documentation

A python client for Etcd https://github.com/coreos/etcd
Official documentation: http://python-etcd.readthedocs.org/

.. image:: https://travis-ci.org/jplana/python-etcd.png?branch=master
   :target: https://travis-ci.org/jplana/python-etcd

.. image:: https://coveralls.io/repos/jplana/python-etcd/badge.svg?branch=master&service=github
   :target: https://coveralls.io/github/jplana/python-etcd?branch=master

Installation
------------

Pre-requirements
~~~~~~~~~~~~~~~~

This version of python-etcd will only work correctly with the etcd server version 2.0.x or later. If you are running an older version of etcd, please use python-etcd 0.3.3 or earlier.

This client is known to work with python 2.7 and with python 3.3 or above. It is not tested or expected to work in more outdated versions of python.

From source
~~~~~~~~~~~~

.. code:: bash

   $ python setup.py install

Usage
-----

The basic methods of the client have changed compared to previous versions, to reflect the new API structure; however a compatibility layer has been maintained so that you don't necessarily need to rewrite all your existing code.

Create a client object
~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

   import etcd

   client = etcd.Client() # this will create a client against etcd server running on localhost on port 4001
   client = etcd.Client(port=4002)
   client = etcd.Client(host='127.0.0.1', port=4003)
   client = etcd.Client(host=([127.0.0.1', 4001], [127.0.0.1', 4002], [127.0.0.1', 4003]))
   client = etcd.Client(host='127.0.0.1', port=4003, allow_redirect=False) # wont let you run sensitive commands on non-leader machines, default is true
   
   # If you have defined a SRV record for _etcd._tcp.example.com pointing to the clients
client = etcd.Client(srv_domain='example.com', protocol="https")
# create a client against https://api.example.com:443/etcd
client = etcd.Client(host='api.example.com', protocol='https', port=443, version_prefix='/etcd')

Write a key
~~~~~~~~~~~

.. code:: python

    client.write('/nodes/n1', 1)
    # with ttl
    client.write('/nodes/n2', 2, ttl=4)  # sets the ttl to 4 seconds
    client.set('/nodes/n2', 1)  # Equivalent, for compatibility reasons.

Read a key
~~~~~~~~~~

.. code:: python

    client.read('/nodes/n2').value
    client.read('/nodes', recursive = True)  #get all the values of a directory, recursively.
    client.get('/nodes/n2').value

    # raises etcd.EtcdKeyNotFound when key not found
    try:
        client.read('/invalid/path')
    except etcd.EtcdKeyNotFound:
        # do something
        print "error"

Delete a key
~~~~~~~~~~~

.. code:: python

    client.delete('/nodes/n1')

Atomic Compare and Swap
~~~~~~~~~~~~~~~~~~~~~~~

.. code:: python

    client.write('/nodes/n2', 2, prevValue = 4)  # will set /nodes/n2 's value to 2 only if its previous value was 4
    and
    client.write('/nodes/n2', 2, prevExist = False)  # will set /nodes/n2 's value to 2 only if the key did not exist before
    client.write('/nodes/n2', 2, prevIndex = 30)  # will set /nodes/n2 's value to 2 only if the key was last modified
You can also atomically update a result:

```python
result = client.read('/foo')
print(result.value) # bar
result.value += u'bar'
updated = client.update(result) # if any other client wrote '/foo' in the meantime this will fail
print(updated.value) # barbar
```

Watch a key
~~~~~~~~~~

```python
client.read('/nodes/n1', wait=True) # will wait till the key is changed, and return once its changed
client.read('/nodes/n1', wait=True, timeout=30) # will wait till the key is changed, and return once its changed, or exit with an exception after 30 seconds.
client.read('/nodes/n1', wait=True, waitIndex=10) # get all changes on this key starting from index 10
client.watch('/nodes/n1') # equivalent to client.read('/nodes/n1', wait=True)
client.watch('/nodes/n1', index=10)
```

Refreshing key TTL
~~~~~~~~~~~~~~~~~~

(Since etcd 2.3.0) Keys in etcd can be refreshed without notifying current watchers.

This can be achieved by setting the refresh to true when updating a TTL.

You cannot update the value of a key when refreshing it.

```python
client.write('/nodes/n1', 'value', ttl=30)  # sets the ttl to 30 seconds
client.refresh('/nodes/n1', ttl=600)  # refresh ttl to 600 seconds, without notifying current watchers
```

Locking module
~~~~~~~~~~~~~~

```python
# Initialize the lock object:
# NOTE: this does not acquire a lock yet
client = etcd.Client()
# Or you can custom lock prefix, default is '/_locks/' if you are using HEAD
```
client = etcd.Client(lock_prefix='/my_etcd_root/_locks')
lock = etcd.Lock(client, 'my_lock_name')

# Use the lock object:
lock.acquire(blocking=True, # will block until the lock is acquired
    lock_ttl=None) # lock will live until we release it
lock.is_acquired # True
lock.acquire(lock_ttl=60) # renew a lock
lock.release() # release an existing lock
lock.is_acquired # False

# The lock object may also be used as a context manager:
client = etcd.Client()
with etcd.Lock(client, 'customer1') as my_lock:
    do_stuff()
    my_lock.is_acquired # True
    my_lock.acquire(lock_ttl=60)
my_lock.is_acquired # False

Get machines in the cluster
~~~~~~~~~~~~~~~~~~~~~~~~~~~~
.. code:: python

    client.machines

Get leader of the cluster
~~~~~~~~~~~~~~~~~~~~~~~~~~
.. code:: python

    client.leader

Generate a sequential key in a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
.. code:: python

    x = client.write("/dir/name", "value", append=True)
    print("generated key: " + x.key)
    print("stored value: " + x.value)

List contents of a directory
~~~~~~~~~~~~~~~~~~~~~~~~~~~~
.. code:: python
#stick a couple values in the directory
client.write("/dir/name", "value1", append=True)
client.write("/dir/name", "value2", append=True)

directory = client.get("/dir/name")

# loop through directory children
for result in directory.children:
    print(result.key + ": " + result.value)

# or just get the first child value
print(directory.children.next().value)

Development setup
-------------------

To create a buildout,

.. code:: bash

    $ python bootstrap.py
    $ bin/buildout

to test you should have etcd available in your system path:

.. code:: bash

    $ bin/test

to generate documentation,

.. code:: bash

    $ cd docs
    $ make

Release HOWTO
--------------

To make a release

1) Update release date/version in NEWS.txt and setup.py
2) Run 'python setup.py sdist'
3) Test the generated source distribution in dist/
4) Upload to PyPI: 'python setup.py sdist register upload'

News
0.4.5
-----
*Release date: 3-Mar-2017*

* Remove dnspython2/3 requirement
* Change property name setter in lock
* Fixed acl tests
* Added version/cluster_version properties to client
* Fixes in lock when used as context manager
* Fixed improper usage of urllib3 exceptions
* Minor fixes for error classes
* In lock return modifiedIndex to watch changes
* In lock fix context manager exception handling
* Improvements to the documentation
* Remove _base_uri only after refresh from cluster
* Avoid double update of _machines_cache

0.4.4
-----
*Release date: 10-Jan-2017*

* Fix some tests
* Use sys.version_info tuple, instead of named tuple
* Improve & fix documentation
* Fix python3 specific problem when blocking on contented lock
* Add refresh key method
* Add custom lock prefix support

0.4.3
-----
*Release date: 14-Dec-2015*

* Fix check for parameters in case of connection error
* Python 3.5 compatibility and general python3 cleanups
* Added authentication and module for managing ACLs
* Added srv record-based DNS discovery
* Fixed (again) logging of cluster id changes
* Fixed leader lookup
* Properly retry request on exception
* Client: clean up open connections when deleting

0.4.2
-----
*Release date: 8-Oct-2015*
* Fixed lock documentation
* Fixed lock sequences due to etcd 2.2 change
* Better exception management during response processing
* Fixed logging of cluster ID changes
* Fixed subtree results
* Do not check cluster ID if etcd responses don't contain the ID
* Added a cause to EtcdConnectionFailed

0.4.1
----
*Release date: 1-Aug-2015*

* Added client-side leader election
* Added stats endpoints
* Added logging
* Better exception handling
* Check for cluster ID on each request
* Added etcd.Client.members and fixed etcd.Client.leader
* Removed locking and election etcd support
* Allow the use of etcd proxies with reconnections
* Implement pop: Remove key from etc and return the corresponding value.
* Eternal watcher can be now recursive
* Fix etcd.Client machines
* Do not send parameters with `None` value to etcd
* Support ttl=0 in write.
* Moved pyOpenSSL into test requirements.
* Always set certificate information so redirects from http to https work.

0.3.3
----
*Release date: 12-Apr-2015*

* Forward leaves_only value in get_subtree() recursive calls
* Fix README prevExists->prevExist
* Added configurable version_prefix
* Added support for recursive watch
* Better error handling support (more detailed exceptions)
* Fixed some unreliable tests

0.3.2
----
*Release date: 4-Aug-2014*

* Fixed generated documentation version.
0.3.1
-----
*Release date: 4-Aug-2014*

* Added consisten read option
* Fixed timeout parameter in read()
* Added atomic delete parameter support
* Fixed delete behaviour
* Added update method that allows atomic updated on results
* Fixed checks on write()
* Added leaves generator to EtcdResult and get_subtree for recursive fetch
* Added etcd_index to EtcdResult
* Changed ethernal -> eternal
* Updated urllib3 & pyOpenSSL libraries
* Several performance fixes
* Better parsing of etcd_index and raft_index
* Removed duplicated tests
* Added several integration and unit tests
* Use etcd v0.3.0 in travis
* Execute test using `python setup.py test` and nose

0.3.0
-----
*Release date: 18-Jan-2014*

* API v2 support
* Python 3.3 compatibility

0.2.1
-----
*Release data: 30-Nov-2013*

* SSL support
* Added support for subdirectories in results.
* Improve test
* Added support for reconnections, allowing death node tolerance.

0.2.0
-----
*Release date: 30-Sep-2013*

* Allow fetching of multiple keys (sub-nodes)

0.1

---

*Release date: 18-Sep-2013*

* Initial release

Keywords: etcd raft distributed log api client
Platform: UNKNOWN
Classifier: Topic :: System :: Distributed Computing
Classifier: Topic :: Software Development :: Libraries
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Classifier: Programming Language :: Python :: 2
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from setuptools import setup, find_packages
import sys, os

here = os.path.abspath(os.path.dirname(__file__))
README = open(os.path.join(here, 'README.rst')).read()
NEWS = open(os.path.join(here, 'NEWS.txt')).read()

version = '0.4.5'

install_requires = [
    'urllib3>=1.7.1',
    'dnspython>=1.13.0'
]

test_requires = [
    'mock',
    'nose',
    'pyOpenSSL>=0.14'
]
setup(
    name='python-etcd',
    version=version,
    description="A python client for etcd",
    long_description=README + '

' + NEWS,
    classifiers=[
        "Topic :: System :: Distributed Computing",
        "Topic :: Software Development :: Libraries",
        "License :: OSI Approved :: MIT License",
        "Programming Language :: Python :: 2",
        "Programming Language :: Python :: 3",
        "Topic :: Database :: Front-Ends",
    ],
    keywords='etcd raft distributed log api client',
    author='Jose Plana',
    author_email='jplana@gmail.com',
    url='http://github.com/jplana/python-etcd',
    license='MIT',
    packages=find_packages('src'),
    package_dir = {'': 'src'},
    include_package_data=True,
    zip_safe=False,
    install_requires=install_requires,
    tests_require=test_requires,
    test_suite='nose.collector',
)

Found in path(s):
* /opt/cola/permits/1112217808_1607049972.97/0/python-etcd-0-4-5-1-tar-gz/python-etcd-0.4.5/setup.py

1.726 shiro-crypto-cipher 1.7.0

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1.727 six 1.15.0

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otherwise worked to improve six:

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1.731 groovy-datetime 3.0.7

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  jar/org/apache/groovy/datetime/extensions/DateTimeExtensions.java
* /opt/cola/permits/1220002033_1635293094.84/0/groovy-datetime-3-0-7-sources-1-
  jar/org/apache/groovy/datetime/extensions/DateTimeStaticExtensions.java

1.732 netty-transport-native-epoll 4.1.51.Final

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  jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/EpollMode.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/TcpMd5Util.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
  jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-
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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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 * 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="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4-1-51-final-sources-jar/io/netty/channel/epoll/Epoll.java
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* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4.1-51-final-sources-
  jar/netty_epoll_linuxsocket.h
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4.1-51-final-sources-
  jar/io/netty/channel/epoll/LinuxSocket.java
* /opt/ws_local/PERMITS_SQL/1075084041_1596044813.39/0/netty-transport-native-epoll-4.1-51-final-sources-
  jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java

1.733 slf4j-log4j 2.13.3
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1.764 contextlib2 0.6.0
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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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**1.765 ulikunitz-xz 0.5.5**

**1.765.1 Available under license:**

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```go
package main

import (  
    "bufio"  
    "bytes"  
    "flag"  
    "fmt"  
    "io"  
    "log"  
    "os"  
    "path/filepath"  
    "strings"
)```
const crUsageString = `xb copyright [options] <path>....

The xb copyright command adds a copyright remark to all go files below path.

  -h  prints this message and exits
  
  func crUsage(w io.Writer) {
    fmt.Fprint(w, crUsageString)
  }

  const copyrightText = `Copyright 2014-2018 Ulrich Kunitz. All rights reserved.
  Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.
  `
  
  func goComment(text string) string {
    buf := new(bytes.Buffer)
    scanner := bufio.NewScanner(strings.NewReader(text))
    var err error
    for scanner.Scan() {
      s := strings.TrimSpace(scanner.Text())
      if len(s) == 0 {
        continue
      }
      if _, err = fmt.Fprintf(buf, "//", s); err != nil {
        panic(err)
      }
    }
    if err = scanner.Err(); err != nil {
      panic(err)
    }
    if _, err = fmt.Fprintf(buf); err != nil {
      panic(err)
    }
    return buf.String()
  }

  var goCopyright = goComment(copyrightText)

  func addCopyright(path string) (err error) {
    log.Printf("adding copyright to %s", path)
    src, err := os.Open(path)
    if err != nil {
      return err
    }

    return
  }
defer func() {
    cerr := src.Close()
    if cerr != nil && err == nil {
        err = cerr
    }
}

newPath := path + ".new"
dst, err := os.Create(newPath)
if err != nil {
    return err
}

defer func() {
    cerr := dst.Close()
    if cerr != nil && err == nil {
        err = cerr
    }
}

out := bufio.NewWriter(dst)
fmt.Fprint(out, goCopyright)
scanner := bufio.NewScanner(src)
line := 0
del := false
for scanner.Scan() {
    line++
txt := scanner.Text()
    if line == 1 && strings.Contains(txt, "Copyright") {
        del = true
        continue
    } else if del {
        s := strings.TrimSpace(txt)
        if len(s) == 0 {
            del = false
        } else {
            continue
        }
    }
    fmt.Fprintln(out, txt)
}
if err = scanner.Err(); err != nil {
    return err
}
if err = out.Flush(); err != nil {
    return
}
err = os.Rename(newPath, path)
return
func walkCopyrights(path string, info os.FileInfo, err error) error {
    if err != nil {
        return err
    }
    if info.IsDir() {
        return nil
    }
    if !strings.HasSuffix(info.Name(), ".go") {
        return nil
    }
    return addCopyright(path)
}

func copyright() {
    cmdName := os.Args[0]
    log.SetPrefix(fmt.Sprintf("%s: ", cmdName))
    log.SetFlags(0)
    flag.CommandLine = flag.NewFlagSet(cmdName, flag.ExitOnError)
    flag.Usage = func() { crUsage(os.Stderr); os.Exit(1) }

    help := flag.Bool("h", false, "")
    flag.Parse()

    if *help {
        crUsage(os.Stdout)
        os.Exit(0)
    }

    for _, path := range flag.Args() {
        fi, err := os.Stat(path)
        if err != nil {
            log.Print(err)
            continue
        }
        if !fi.IsDir() {
            log.Printf("%s is not a directory", path)
            continue
        }
        if err = filepath.Walk(path, walkCopyrights); err != nil {
            log.Fatalf("%s error %s", path, err)
        }
    }
}

package main
const goLicense = `Copyright (c) 2009 The Go Authors. All rights reserved.

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`;

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 productId="cw-infra-4.1.0-dockerimages-clean" version="5588"

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Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.salomanta@iki.fi), and has been in development since 2007.
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https://github.com/golang/protobuf

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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
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1.788 x-cray-logrus-prefixed-formatter 0.5.2

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1.789 fzambia-eagle 0.0.1

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1.790 jetty-io 8.1.7.v20120910

1.791 grafana-grafana-plugin-model 0.0.0-20190930120109-1fc953a61fb4
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From strings/apr_fnmatch.c, include/apr_fnmatch.h, misc/unix/getopt.c,
file io/unix/mktemp.c, strings/apr_strings.c:

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:
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From dso/aix/dso.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_snprintf.c:

* cvt - IEEE floating point formatting routines.
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1.802 go-runewidth 0.0.9

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1.803 protobuf-java 3.11.4

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* /opt/cola/permits/1199766327_1630582588.31/0/protobuf-java-3-11-4-sources-3-jar/com/google/protobuf/NioByteString.java
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* /opt/cola/permits/1199766327_1630582588.31/0/protobuf-java-3-11-4-sources-3-jar/com/google/protobuf/SmallSortedMap.java
* /opt/cola/permits/1199766327_1630582588.31/0/protobuf-java-3-11-4-sources-3-jar/com/google/protobuf/protobuf.java
* /opt/cola/permits/1199766327_1630582588.31/0/protobuf-java-3-11-4-sources-3-jar/com/google/protobuf/CodedOutputStream.java
* /opt/cola/permits/1199766327_1630582588.31/0/protobuf-java-3-11-4-sources-3-jar/google/protobuf/duration.proto
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* /opt/cola/permits/1199766327_1630582588.31/0/protobuf-java-3-11-4-sources-3-jar/com/google/protobuf/LazyStringList.java

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$OpenLDAP: pkg/ldap/libraries/libutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt Exp $ /
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1.817 opensssh-client-common 8.6_p1-r2

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1.828 protobuf 1.23.0

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1.829 uniseg 0.2.0

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1.830 hsqldb-jdbc 2.5.1

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1.831 go-zookeeper 0.0.0-20180130194729-c4fab1ac1bec

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1.832 google-go-cmp 0.4.0

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1.834 zipkin-reporter 0.10.0

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1.835 click 8.0.3
1.835.1 Available under license:
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[metadata]
name = click
version = attr: click.__version__
url = https://palletsprojects.com/p/click/
project_urls =
Donate = https://palletsprojects.com/donate
Documentation = https://click.palletsprojects.com/
Changes = https://click.palletsprojects.com/changes/
Source Code = https://github.com/pallets/click/
Issue Tracker = https://github.com/pallets/click/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 = Composable command line interface toolkit
long_description = file: README.rst
long_description_content_type = text/x-rst
classifiers =
    Development Status :: 5 - Production/Stable
    Intended Audience :: Developers
    License :: OSI Approved :: BSD License
    Operating System :: OS Independent
    Programming Language :: Python

[options]
packages = find:
    package_dir = = src
include_package_data = true
    python_requires = >= 3.6

[options.packages.find]
where = src

[tool:pytest]
testpaths = tests
filterwarnings =
    error

[coverage:run]
branch = true
source =
    click
tests

[coverage:paths]
source =
    click
*/site-packages
[flake8]
select = B, E, F, W, B9, ISC
ignore =
E203
E501
E722
W503
max-line-length = 80
per-file-ignores =
src/click/__init__.py: F401

[mypy]
files = src/click
python_version = 3.6
disallow_subclassing_any = True
disallow_untyped_calls = True
disallow_untyped_defs = True
disallow_incomplete defs = True
check_untyped_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-colorama.*]
ignore_missing_imports = True

[mypy-importlib_metadata.*]
ignore_missing_imports = True

[egg_info]
tag_build =
tag_date = 0

Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/setup.cfg
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* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/LICENSE.rst
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Found in path(s):
* /opt/cola/permits/1212549943_1634637984.77/0/click-8-0-3-tar-gz/click-8.0.3/src/click/parser.py
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Metadata-Version: 2.1
Name: click
Version: 8.0.3
Summary: Composable command line interface toolkit
Home-page: https://palletsprojects.com/p/click/
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://click.palletsprojects.com/
Click is a Python package for creating beautiful command line interfaces in a composable way with as little code as necessary. It's the "Command Line Interface Creation Kit". It's highly configurable but comes with sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun while also preventing any frustration caused by the inability to implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing
----------

Install and update using `pip`:

```
$ pip install -U click
```

A Simple Example
-----------------
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name", help="The person to greet.")
def hello(count, name):
    
    """Simple program that greets NAME for a total of COUNT times.""
    for _ in range(count):
        click.echo(f"Hello, {name}!")

if __name__ == '__main__':
    hello()

$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!

Donate
-----

The Pallets organization develops and supports Click 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://click.palletsprojects.com/
- Changes: https://click.palletsprojects.com/changes/
- PyPI Releases: https://pypi.org/project/click/
- Source Code: https://github.com/pallets/click
- Issue Tracker: https://github.com/pallets/click/issues
- Website: https://palletsprojects.com/p/click
- Twitter: https://twitter.com/PalletsTeam
- Chat: https://discord.gg/pallets
As the userbase of Click grows, more and more major feature requests pop up in Click's bugtracker. As reasonable as it may be for those features to be bundled with Click instead of being a standalone project, many of those requested features are either highly experimental or have unproven practical use, while potentially being a burden to maintain.

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.

Please note that the quality and stability of those packages may be different than what you expect from Click itself. While published under a common organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

1.836 oauth2-oidc-sdk 8.28.2

1.836.1 Available under license:

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* oauth2-oidc-sdk

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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:
* <pre>
* POST /revoke HTTP/1.1
* Host: server.example.com
* Content-Type: application/x-www-form-urlencoded
* Authorization: Basic czZCaGRSa3F0MzpnWDFmQmF0M2JW
* token=45ghiukldjahdnhzdauz&token_type_hint=refresh_token
* </pre>
* <p>Example token revocation request for a public client:
* <pre>
* 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
* @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

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* specific language governing permissions and limitations under the License.
*/

/**
* 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 #toHTTPRequest} 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/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/RequestObjectPOSTRequest.java

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 * specific language governing permissions and limitations under the License.
 */

/**
 * 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.
 */

Found in path(s):
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/GrantType.java

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* under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
* Client information. Encapsulates the registration and metadata details of
* an OAuth 2.0 client:
*
* <ul>
*   <li>The client identifier.
*   <li>The client 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>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>
*/
// The client must by unambiguously public, else it is marked as confidential

Found in path(s):
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-
jar/com/nimbusds/oauth2/sdk/client/ClientInformation.java
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* CONDITIONS OF ANY KIND, either express or implied. See the License for the
* specific language governing permissions and limitations under the License.
*/
/**
* 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
* credentials (e.g., clients executing on the device used by the
* resource owner, such as an installed native application or a web
* browser-based application), and incapable of secure client
* authentication via any other means.
*/

Found in path(s):
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-
jar/com/nimbusds/oauth2/sdk/client/ClientType.java
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*/

Found in path(s):
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/constraints/TrustChainConstraints.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-
jar/com/nimbusds/openid/connect/sdk/federation/trust/InvalidEntityMetadataException.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-
jar/com/nimbusds/openid/connect/sdk/api/EntityListingSpec.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-
jar/com/nimbusds/openid/connect/sdk/claims/ClaimsSetRequest.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/FederationAPIRequest.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/oidc/claims/OIDCClaimsRequest.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/api/EntityListingRequest.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/dpop/package-info.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/operations/ConfigurationType.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/policy/MetadataPolicy.java
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 * under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR
 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * specific language governing permissions and limitations under the License.
 */
/**
 * 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/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-
jar/com/nimbusds/oauth2/sdk/PushedAuthorizationRequest.java
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 * CONDITIONS OF ANY KIND, either express or implied. See the License for the
 * 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>
 *
 * 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.
Found in path(s):
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/rp/OIDCClientInformation.java
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 */

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* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/validators/BadJWTExceptions.java
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 */

Found in path(s):
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/claims/StateHash.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/config/package-info.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/federation/trust/marks/TrustMarkClaimsSet.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/AbstractOptionallyAuthenticatedRequest.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/token/Token.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/serialize/SerializeException.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/oidc/OIDCScopesValue.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/jarm/JARMClaimsVerifier.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/op/AuthenticationRequestDetector.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/assertions/jwt/JWTAssertionDetailsVerifier.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/role/Role.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/token/Tokens.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/token/TokenIntrospectionSuccessResponse.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/AuthenticationErrorResponse.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/openid/connect/sdk/Prompt.java

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* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/ProtectedResourceRequest.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/TOKENIntrospectionRequest.java
* /opt/cola/permits/1170796238_1622715260.37/0/oauth2-oidc-sdk-8-28-2-sources-jar/com/nimbusds/oauth2/sdk/util/JWTClaimsSetUtils.java
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## Source Code

The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
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1.838 lib-pq 1.9.0

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```go
// +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
```
func SetNoticeHandler(c driver.Conn, handler func(*Error)) {
  c.(*conn).noticeHandler = 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
}

func (n *NoticeHandlerConnector) Connector() driver.Connector {
  return n.Connector
}

// 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
  } else {
    c := &NoticeHandlerConnector{Connector: c, noticeHandler: handler}
  }
  return c
}
return c
}
return &NoticeHandlerConnector{Connector: c, noticeHandler: handler}

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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

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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

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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1.841 dsnet-compress 0.0.1

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1.842 libc-utils 0.7.2-r3

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1.843 jcmtturner-gokrb 8.4.2

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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

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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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  jar/io/netty/handler/codec/ValueConverter.java
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* Utility class for [@link ByteBuf] that encodes and decodes to and from
  * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
  *<p>
/* The encoding and decoding algorithm in this class has been derived from
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/**
 * Enumeration of supported Base64 dialects.
 * <p>
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 */

/**
 * A decoder that splits the received [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.
 */

{}s

{ @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.

* <p>

* <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" |
* +--------+----------------+      +--------+----------------+
* </pre>
* * 2 bytes length field at offset 0, strip header</h3>
* * Because we can get the length of the content by calling
* @link ByteBuf#readableBytes(), you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* </pre>
* * BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
* * 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.
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = -2 (= the length of the Length field)
* initialBytesToStrip = 0
*
* BEFORE DECODE (14 bytes)     AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
*/

* The following message is a simple variation of the first example. An extra
* header value is prepended to the message. lengthAdjustment is zero again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
*
* lengthFieldOffset = 2 (= the length of Header 1)
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0
*
* BEFORE DECODE (17 bytes)                     AFTER DECODE (17 bytes)
* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* | 0xCAFE  | 0x00000C | "HELLO, WORLD" |      | 0xCAFE  | 0x00000C | "HELLO, WORLD" |
* +----------+----------+----------------+      +----------+----------+----------------+
*/

* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body. You have to specify a positive lengthAdjustment so that the decoder counts the extra
* header into the frame length calculation.
*
* lengthFieldOffset = 0
* lengthFieldLength = 3
* lengthAdjustment = 2 (= 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" |
* 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>`

  * `<tt>lengthFieldOffset</tt> = 1 (= the length of HDR1)
  * `<tt>lengthFieldLength</tt> = 2
  * `<tt>lengthAdjustment</tt>` = `<tt>1</tt>` (= the length of HDR2)
  * `<tt>initialBytesToStrip</tt>` = `<tt>3</tt>` (= the length of HDR1 + LEN)

* `</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>

* 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>`

  * `<tt>lengthFieldOffset</tt> = 1
  * `<tt>lengthFieldLength</tt> = 2
  * `<tt>lengthAdjustment</tt>` = `<tt>-3</tt>` (= the length of HDR1 + LEN, negative)
  * `<tt>initialBytesToStrip</tt>` = `<tt>3</tt>`

* `</pre>`
@see LengthFieldPrepender
*/

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* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/io/grpc/Channel.java
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* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/io/grpc/ServerInterceptor.java
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* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/io/grpc/ServerCallHandler.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/io/grpc/Drainable.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/io/grpc/ServerInterceptors.java
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  jar/io/grpc/InternalMetadata.java
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  jar/io/grpc/ConnectivityState.java
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  jar/io/grpc/ServiceDescriptor.java
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* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/jar/io/grpc/ChannelLogger.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/jar/io/grpc/InternalManagedChannelProvider.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/jar/io/grpc/LoadBalancerProvider.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/jar/io/grpc/LoadBalancerRegistry.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/jar/io/grpc/InternalChannelz.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/jar/io/grpc/InternalClientInterceptors.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/jar/io/grpc/PartialForwardingClientCallListener.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/jar/io/grpc/SynchronizationContext.java
* /opt/ws_local/PERMITS_SQL/1083457048_1598192308.27/0/grpc-api-1-30-2-sources-jar/jar/io/grpc/PartialForwardingClientCall.java

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* /opt/cola/permits/1170796017_1622715418.28/0/inspektr-common-1-8-10-ga-sources-
  jar/org/apereo/inspektr/common/Cleanable.java
* /opt/cola/permits/1170796017_1622715418.28/0/inspektr-common-1-8-10-ga-sources-
  jar/org/apereo/inspektr/common/spi/DefaultClientInfoResolver.java
* /opt/cola/permits/1170796017_1622715418.28/0/inspektr-common-1-8-10-ga-sources-
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**1.868 kr-fs 0.1.0**

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1.873 spring-web-mvc 5.3.5

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

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* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-
jar/org/springframework/web/servlet/view/xslt/XsltView.java

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* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-jar/org/springframework/web/servlet/view/JstlView.java
* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-jar/org/springframework/web/servlet/LocaleResolver.java
* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-jar/org/springframework/web/servlet/config/annotation/RedirectViewControllerRegistration.java
* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-jar/org/springframework/web/servlet/async/AsyncHandlerInterceptor.java
* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-jar/org/springframework/web/servlet/mvc/method/annotation/PathVariableMapMethodArgumentResolver.java
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* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-jar/org/springframework/web/servlet/mvc/method/annotation/RedirectAttributesMethodArgumentResolver.java
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* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-
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* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-
jar/org/springframework/web/servlet/mvc/condition/RequestConditionHolder.java
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* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-
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/**
 * A contract for inspecting and potentially modifying request data values such
 * as URL query parameters or form field values before they are rendered by a
 * view or before a redirect.
 *
 * Implementations may use this contract for example as part of a solution
 * to provide data integrity, confidentiality, protection against cross-site
 * request forgery (CSRF), and others or for other tasks such as automatically
 * adding a hidden field to all forms and URLs.
 *
 * View technologies that support this contract can obtain an instance to
 * delegate to via \{ @link RequestContext\#getRequestDataValueProcessor() \}.
 *
 * @author Rossen Stoyanchev
 * @since 3.1
 */

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* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-jar/org/springframework/web/servlet/config/annotation/WebMvcConfigurer.java
* /opt/cola/permits/1148544962_1617703650.16/0/spring-webmvc-5-3-5-sources-jar/org/springframework/web/servlet/config/annotation/PathMatchConfigurer.java
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lib/csharp/src/Protocol/TMessage.cs
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lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TTThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
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lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
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lib/rb/lib/thrift.rb
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test/OptionalRequiredTest.cpp
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* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/netty_unix_util.h
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/Limits.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/netty_unix_limits.h
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/SocketWritableByteChannel.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/netty_unix_limits.c
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/PeerCredentials.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
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* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/UnixChannelOption.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/UnixChannelOption.java
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* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
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* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/UnixChannelUtil.java
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* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/Errors.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/netty_unix_filedescriptor.h
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/DomainSocketChannel.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/DomainSocketAddress.java
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jar/io/netty/channel/unix/DomainSocketReadMode.java
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jar/io/netty/channel/unix/DatagramSocketAddress.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
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jar/io/netty/channel/unix/Descriptor.java
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jar/netty_unix_filedescriptor.c
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/netty_unix_errors.h
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /opt/cola/permits/1130189149_1612482437.1/0/netty-transport-native-unix-common-4-1-45-final-sources-1-
jar/netty_unix_socket.h
1.912 pcre2 10.36-r0

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---
layout: docs
page_title: Consul-Terraform-Sync Enterprise License
description: >-
  Consul-Terraform-Sync Enterprise License
---

# Consul-Terraform-Sync Enterprise License
Consul-Terraform-Sync Enterprise binaries require a [Consul Enterprise license](/docs/enterprise/license/overview) to run. There is no Consul-Terraform-Sync Enterprise specific license. As a result, Consul-Terraform-Sync Enterprise's licensing is very similar to Consul Enterprise.

All Consul-Terraform-Sync Enterprise features are available with a valid Consul Enterprise license, regardless of your Consul Enterprise packaging or pricing model.

To get a trial license for Consul-Terraform-Sync Enterprise, you can sign-up for the [trial license for Consul Enterprise](/docs/enterprise/license/faq#q-where-can-users-get-a-trial-license-for-consul-enterprise).

## Setting the License

Choose one of the following methods (in order of precedence) to set the license:

1. Set the `CONSUL_LICENSE` environment variable to the license string.

```
```shell-session
export CONSUL_LICENSE=<LICENSE_VALUE>
```

1. Set the `CONSUL_LICENSE_PATH` environment variable to the path of the file containing the license.

```
```shell-session
export CONSUL_LICENSE_PATH=<PATH>/<TO>/<FILE>
```

1. Configure the `license_path`[/docs/nia/configuration#license_path] option in the configuration file to point to the file containing the license.

```hcl
license_path = "<PATH>/<TO>/<FILE>"
```

--> **Note**: the [options to set the license and the order of precedence](/docs/enterprise/license/overview#binaries-without-built-in-licenses) are the same as Consul Enterprise server agents.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Updating the License

The previous section describes options for [setting the license](#setting-the-license) needed to start running Consul-Terraform-Sync Enterprise. Use the following procedure to update the license when it expires or is near the expiration date:
1. Update the license environment variable or configuration with the new license value or path to the new license file
1. Stop and restart Consul-Terraform-Sync Enterprise

Once Consul-Terraform-Sync Enterprise starts again, it will pick up the new license and run the tasks with any changes that may have occurred between the stop and restart period.

## Notification and Termination Behavior

Licenses have an expiration date and a termination date. The termination date is a time at or after the license expires. Consul-Terraform-Sync Enterprise will cease to function once the termination date has passed.

The time between the expiration and termination dates is a grace period. Grace periods are generally 24-hours, but you should refer to your license agreement for complete terms of your grace period.

When approaching expiration and termination, Consul-Terraform-Sync Enterprise will provide notifications in the system logs:

<table>
<thead>
<tr>
<th>Time period</th>
<th>Behavior</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 days before expiration</td>
<td>Warning-level log every 24-hours</td>
</tr>
<tr>
<td>7 days before expiration</td>
<td>Warning-level log every 1 hour</td>
</tr>
<tr>
<td>1 hour before expiration</td>
<td>Warning-level log every 1 minute</td>
</tr>
<tr>
<td>1 day before expiration</td>
<td>Warning-level log every 5 minutes</td>
</tr>
<tr>
<td>At or after expiration (before termination)</td>
<td>Error-level log every 1 minute</td>
</tr>
<tr>
<td>At or after termination</td>
<td>Error-level log and exit</td>
</tr>
</tbody>
</table>

-> **Note**: Notification frequency and [grace period](/docs/enterprise/license/faq#q-is-there-a-grace-period-when-licenses-expire) behavior is the same as Consul Enterprise.

<div>...
<FormGroup @name={{name}} as |group|>

{{yield (hash submit=(action 'submit' changeset) reset=(action 'reset' changeset) isDirty=(and changeset.isValid changeset.isDirty) changeset=changeset )}}

</fieldset>

</FormGroup>
</div>
<group.Element
   @name="HeaderType"
   @type="select"
as [el]>
   <el.Label>Header type</el.Label>
   <PowerSelect
      @options={{headerTypes}}
      @selected={{headerType}}
      @onChange={{action 'change' 'HeaderType' changeset}} as [Type]>
      {{get headerLabels Type}}
   </PowerSelect>
</group.Element>

<group.Element
   @name="Name"
   @error={{changeset-get changeset 'error.Name'}}
as [el]>
   <el.Label>Header name</el.Label>
   <el.Text
      @value={{changeset-get changeset 'Name'}}
      @oninput={{action 'change' 'Name' changeset}} />
   <State @state={{el.state}} @matches="error">
      {{changeset-get changeset 'error.Name.validation'}}
   </State>
</group.Element>

{{#if shouldShowValueField}}
<group.Element
   @name="Value"
   @error={{changeset-get changeset 'error.Value'}}
as [el]>
   <el.Label>Header {{lowercase (get headerLabels headerType)}}</el.Label>
   <el.Text
      @value={{changeset-get changeset 'Value'}}
      @oninput={{action 'change' 'Value' changeset}} />
   <State @state={{el.state}} @matches="error">
      {{changeset-get changeset 'error.Value.validation'}}
   </State>
</group.Element>
{{/if}}
# License - Operator HTTP API

The licensing functionality described here is available only in [Consul Enterprise](https://www.hashicorp.com/products/consul/) version 1.1.0 and later.

## Getting the Consul License

This endpoint gets information about the current license.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>GET</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>all</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` *(string: "")* - Specifies the datacenter whose license should be retrieved. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```
$ curl \
http://127.0.0.1:8500/v1/operator/license
```
### Sample Response

```json
{
    "Valid": true,
    "License": {
        "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
        "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
        "installation_id": "*",
        "issue_time": "2018-05-21T20:03:35.911567355Z",
        "start_time": "2018-05-21T04:00:00Z",
        "expiration_time": "2019-05-22T03:59:59.999Z",
        "product": "consul",
        "flags": {
            "package": "premium"
        },
        "features": [
            "Automated Backups",
            "Automated Upgrades",
            "Enhanced Read Scalability",
            "Network Segments",
            "Redundancy Zone",
            "Advanced Network Federation"
        ],
        "temporary": false
    },
    "Warnings": []
}
```

## Updating the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint updates the Consul license and returns some of the license contents as well as any warning messages regarding its validity.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>PUT</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and
[required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Payload

The payload is the raw license blob.

### Sample Request

```shell-session
$ curl
   --request PUT
   --data @consul.license
   http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```json
{
  "Valid": true,
  "License": {
    "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
    "customer_id": "0259271d-8ffc-e85e-0830-c0822c1f5f2b",
    "installation_id": "*",
    "issue_time": "2018-05-21T20:03:35.911567355Z",
    "start_time": "2018-05-21T04:00:00Z",
    "expiration_time": "2019-05-22T03:59:59.999Z",
    "product": "consul",
    "flags": {
      "package": "premium"
    },
    "features": [
      "Automated Backups",
      "Automated Upgrades",
      "Enhanced Read Scalability",
      "Network Segments",
      "Redundancy Zone",
      "Advanced Network Federation"
  ]
}
```
## Resetting the Consul License

-> **Deprecated** This endpoint was removed in Consul v1.10.0 along with the ability to manage the cluster's license via the API.

This endpoint resets the Consul license to the license included in the Enterprise binary. If the included license is not valid, the replace will fail.

<table>
<thead>
<tr>
<th>Method</th>
<th>Path</th>
<th>Produces</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>DELETE</code></td>
<td><code>/operator/license</code></td>
<td><code>application/json</code></td>
</tr>
</tbody>
</table>

The table below shows this endpoint's support for [blocking queries](/api/features/blocking), [consistency modes](/api/features/consistency), [agent caching](/api/features/caching), and [required ACLs](/api#authentication).

<table>
<thead>
<tr>
<th>Blocking Queries</th>
<th>Consistency Modes</th>
<th>Agent Caching</th>
<th>ACL Required</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>NO</code></td>
<td><code>none</code></td>
<td><code>none</code></td>
<td><code>operator:write</code></td>
</tr>
</tbody>
</table>

### Parameters

- `dc` (string: `""`) - Specifies the datacenter whose license should be updated. This will default to the datacenter of the agent serving the HTTP request. This is specified as a URL query parameter.

### Sample Request

```
$ curl --request DELETE http://127.0.0.1:8500/v1/operator/license
```

### Sample Response

```
{
  "Valid": true,
}
```
"License": {
  "license_id": "2afbf681-0d1a-0649-cb6c-333ec9f0989c",
  "customer_id": "0259271d-8ff6-e583-c0822c1f5f2b",
  "installation_id": "*",
  "issue_time": "2018-05-21T20:03:35.911567355Z",
  "start_time": "2018-05-21T04:00:00Z",
  "expiration_time": "2019-05-22T03:59:59.999Z",
  "product": "consul",
  "flags": {
    "package": "premium"
  },
  "features": [
    "Automated Backups",
    "Automated Upgrades",
    "Enhanced Read Scalability",
    "Network Segments",
    "Redundancy Zone",
    "Advanced Network Federation"
  ],
  "temporary": false
},
"Warnings": []
```
@import './skin';
@import './layout';
.consul-intention-permission-header-list {
  > ul > li {
    @extend %list-row-200;
  }
}
```
---
layout: docs
page_title: Consul Enterprise License
description: Consul Enterprise License Overview.
---

# Consul Enterprise License

## Licensing

All Consul Enterprise agents must be licensed when they are started. Where that license comes from will depend on which binary is in use, whether the agent is a server, client or snapshot agent and whether ACLs have been enabled for the cluster.

> ** Consul Enterprise 1.10.0 removed temporary licensing.** In previous versions Consul Enterprise agents could start without a license and then have a license applied to them later on via the CLI or API. That functionality has been removed and replaced with the ability to load licenses from the
agent's configuration or environment. Also prior to 1.10.0 server agents would automatically propagate the license between themselves. This no longer occurs and the license must be present on each server when they are started.

-> Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

### Binaries with Built In Licenses

If you are downloading Consul from Amazon S3, then the license is included in the binary and you do not need to take further action. This is the most common use case.

In the S3 bucket you will find three Enterprise zip packages. The packages with `+pro` and `+prem` in the name, are the binaries that include the license. The package with `+ent` in the name does not include the license.

When using these binaries no further action is necessary to configure the license.

### Binaries Without Built In Licenses

For Consul Enterprise 1.10.0 or greater, binaries that do not include built in licenses a license must be available at the time the agent starts. For server agents this means that they must either have the `license_path` configuration set or have a license configured in the servers environment with the `CONSUL_LICENSE` or `CONSUL_LICENSE_PATH` environment variables. Both the configuration item and the `CONSUL_LICENSE_PATH` environment variable point to a file containing the license whereas the `CONSUL_LICENSE` environment variable should contain the license as the value. If multiple of these are set the order of precedence is:

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

Both client agents and the snapshot agent may also be licensed in the very same manner. However to prevent the need to configure the license on many client agents and snapshot agents those agents have the capability to retrieve the license automatically under specific circumstances.

### Client Agent License Retrieval

When a client agent starts without a license in its configuration or environment, it will try to retrieve the license from the servers via RPCs. That RPC always requires a valid non-anonymous ACL token to authorize the request but the token doesn't need any particular permissions. As the license is required before the client actually joins the cluster, where to make those RPC requests to is inferred from the `start_join` or `retry_join` configurations. If those are both unset or no `agent` token is set then the client agent will immediately shut itself down.
If all preliminary checks pass the client agent will attempt to reach out to any server on its RPC port to request the license. These requests will be retried for up to 5 minutes and if it is unable to retrieve a license within that time frame it will shut itself down.

If ACLs are disabled then the license must be provided to the client agent through one of the three methods listed below.
Failure in providing the client agent with a licence will prevent the client agent from joining the cluster.

1. `CONSUL_LICENSE` environment variable
2. `CONSUL_LICENSE_PATH` environment variable
3. `license_path` configuration item.

#### Snapshot Agent License Retrieval

The snapshot agent has similar functionality to the client agent for automatically retrieving the license. However, instead of requiring a server agent to talk to, the snapshot agent can request the license from the server or client agent it would use for all other operations. It still requires an ACL token to authorize the request. Also like client agents, the snapshot agent will shut itself down after being unable to retrieve the license for 5 minutes.

```html
<FormGroup
  @name="{{name}}"
  as="{{group}}">
  {{yield (hash
    submit=(action 'submit' changeset)
    reset=(action 'reset' changeset)
    isDirty=(and changeset.isValid)
    changeset=changeset
  )}}

  <fieldset>
    <div data-property="action">
      <span class="label">
        Should this permission allow the source connect to the destination?
      </span>
      <div role="radiogroup" class="has-error">
        {{#each intents as |intent|}}
          <label>
            <span>{{capitalize intent}}</span>
            <input
              type="radio"
              name="Action"
              value="{{intent}}"
            ></label>
        {{/each}}
      </div>
    </div>
  </fieldset>
</FormGroup>
```
checked={if (eq changeset.Action intent) 'checked'}
onchange={action (changeset-set changeset 'Action') value="target.value"} />
</label>
{{/each}}
</div>
</div>
</fieldset>

<fieldset>
<header>
<h2>Path</h2>
</header>
<div>
<group.Element
  @name="PathType"
  @type="select"
  as |el|>
  <el.Label>
    Path type
  </el.Label>
  <PowerSelect
    @options={{pathTypes}}
    @selected={{pathType}}
    @onChange={{action 'change' 'HTTP.PathType' changeset}} as |Type|>
    {{get pathLabels Type}}
  </PowerSelect>
  </group.Element>

  {{#if shouldShowPathField}}
  <group.Element
    @name="Path"
    @error={{changeset-get changeset 'error.HTTP.Path'}}
    as |el|>
    <el.Label>{{get pathLabels pathType}}</el.Label>
    <el.Text
      @value={{changeset-get changeset 'HTTP.Path'}}
oninput={{action 'change' 'HTTP.Path' changeset}} />
    <State @state={{el.state}} @matches="error">
      <el.Error>{{#if (eq (changeset-get changeset 'HTTP.Path') 'Regex')}} Path Regex should not be blank {{else}} Path should begin with a '/' {{/if}}}
<el.Error>
</el.Error>
</State>
</group.Element>

{{/if}}
</div>
</fieldset>

<fieldset>
<h2>Methods</h2>
<div class="type-toggle">
<span>All methods are applied by default unless specified</span>
<group.Element
  @name="allMethods"
  as |el|>
  <el.Checkbox
    checked={{if allMethods 'checked'}}
    onchange={{action 'change' 'allMethods' changeset}}
  />
  <el.Label>
    All Methods
  </el.Label>
</group.Element>

{{#if shouldShowMethods}}
<div class="checkbox-group" role="group">
{{#each methods as |method|}}
  <label class="type-checkbox">
    <input type="checkbox"
      name="method"
      value={{method}}
      checked={{if (contains method changeset.HTTP.Methods) 'checked'}}
      onchange={{action 'change' 'method' changeset}}
    />
    {{method}}
  </label>
{{/each}}
</div>
{{/if}}
</fieldset>

<fieldset>
<h2>Headers</h2>
<Consul::Intention::Permission::Header::List
  @items={{changeset-get changeset 'HTTP.Header'}}
<button
data-test-add-header
type="button"
class="type-submit"
disabled={if (not this.headerForm.isDirty) 'disabled'}
onclick={action this.headerForm.submit}
>
  Add{{#if (gt (get (changeset-get changeset 'HTTP.Header') 'length') 0)}} another{{/if}} header
</button>
<button
type="button"
class="type-cancel"
onclick={action this.headerForm.reset}
>
  Cancel
</button>

</fieldset>
</FormFieldGroup>
</div>

.consul-intention-permission-form {
  h2 {
    padding-top: 1.4em;
    margin-top: 0.2em;
    margin-bottom: 0.6em;
  }
  .consul-intention-permission-header-form {
    margin-top: 10px;
  }
  fieldset:nth-child(2) > div,
  .consul-intention-permission-header-form fieldset > div {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(160px, 1fr));
    grid-gap: 12px;
  }
  fieldset:nth-child(2) > div label:last-child {
    grid-column: span 2;
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Notice
@type="info"
as [notice]
<notice.Body>
<p>
{{t "components.consul.intention.notice.permissions.body"}}
</p>
</notice.Body>
<notice.Footer>
<p>
<a href="{{env 'CONSUL_DOCS_URL' }}/connect/intentions" target="_blank" rel="noopener noreferrer">{{t "components.consul.intention.notice.permissions.footer"}}
</a>
</p>
</notice.Footer>
</Notice>

.consol-intention-permission-form {
  h2 {
    border-top: 1px solid rgb(var(--tone-blue-500));
  }
}
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The `license` command provides a datacenter-level view of the Consul Enterprise license. This was added in Consul 1.1.0 but Consul 1.10.0 removed the ability to set and reset the license using the CLI. See the [licensing documentation](https://learn.hashicorp.com/consul/enterprise/license/overview) for more information about Consul Enterprise license management.

If ACLs are enabled then a token with operator privileges may be required in order to use this command. Requests are forwarded internally to the leader if required, so this can be run from any Consul node in a cluster. See the [ACL Guide](https://learn.hashicorp.com/consul/security-networking/production-acls) for more information.

```
Usage: consul license <subcommand> [options] [args]
```

This command has subcommands for managing the Consul Enterprise license. Here are some simple examples, and more detailed examples are available in the subcommands or the documentation.

Install a new license from a file:

```
$ consul license put @consul.license
```

Install a new license from stdin:

```
$ consul license put -
```

Install a new license from a string:

```
$ consul license put "<license blob>"
```

Retrieve the current license:

```
$ consul license get
```

Inspect a license:

```
$ consul license inspect "<path to license file>"
```

Reset the current license:

```
$ consul license reset
```

For more examples, ask for subcommand help or view the documentation.
Subcommands:
  get    Get the active license
           inspect  Inspect a signed license
           put      Puts a new license in the datacenter
           reset   Resets the license in the datacenter

## inspect

This command inspects and validates a license. Just like a Consul agent it can load the license from a file on disk or from the `CONSUL_LICENSE` and `CONSUL_LICENSE_PATH` environment variables.

Usage: `consul license inspect [options] [license file]`

Inspect a license contained in a file:
```
$ consul license inspect consul.hclic
```

Inspect a license loaded from the environment:
```
$ consul license inspect
```

This will look at the `CONSUL_LICENSE` environment variable first and if not present then we will look for the file specified by the `CONSUL_LICENSE_PATH` environment variable.

The output looks like this:
```
Source: /consul/config/consul.hclic (path from the CONSUL_LICENSE_PATH environment variable)
Product: consul
License ID: 6089174b-a713-74cf-4c8d-856b86f1ce50
Customer ID: 7c020610-60a2-7ccb-c210-20d899e5f3b4
Installation ID: *
Issue Time: 2020-09-14 19:45:56.212195875 +0000 UTC
Start Time: 2020-09-14 00:00:00 +0000 UTC
Expiration Time: 2021-09-14 23:59:59.999 +0000 UTC
Termination Time: 2021-09-14 23:59:59.999 +0000 UTC
Modules:
  Global Visibility, Routing and Scale
  Governance and Policy
Features:
- Automated Backups
- Automated Upgrades
- Enhanced Read Scalability
- Network Segments
- Redundancy Zone
- Advanced Network Federation
- Namespaces
- SSO
- Audit Logging
- Admin Partitions

License is valid

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```
## get

This command gets the Consul Enterprise license.

Usage: `consul license get [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'

The output looks like this:

```text
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
```

## reset

-> **Deprecated** The ability to manage the cluster's license via the CLI was removed in Consul 1.10. While the CLI command still exists it will always return an error. This command will be fully removed in a future release.

Resets license for the datacenter to the one built in Consul binary, if it is still valid. If the builtin license is invalid, the current one stays active.

Usage: `consul license reset [options]`

#### API Options

@include 'http_api_options_client.mdx'

@include 'http_api_options_server.mdx'
The output looks like this:

```
```
License is valid
License ID: 2afbf681-0d1a-0649-cb6c-333ec9f0989c
Customer ID: 0259271d-8ffc-e85e-0830-c0822c1f5f2b
Expires At: 2019-05-22 03:59:59.999 +0000 UTC
Datacenter: *
Package: premium
Licensed Features:
  Automated Backups
  Automated Upgrades
  Enhanced Read Scalability
  Network Segments
  Redundancy Zone
  Advanced Network Federation
...
```
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{{#if (gt items.length 0)}}
<ListCollection
  class="consul-intention-permission-header-list"
  @items={{items}}
  @scroll="native"
  @cellHeight={{42}}
  as |item|>
  <dl>
    <dt>
      <Tooltip>
        Header
      </Tooltip>
    </dt>
    <dd>
      {{{item.Name}}} {{{route-match item}}}
    </dd>
  </dl>
  </ListCollection>

{{/if}}
Are you sure you want to delete this header?

<Confirm>Delete</Confirm>

package api

import (  
    "io/ioutil"  
    "strings"  
    "time"  
)

type License struct {  
    // The unique identifier of the license  
    LicenseID string `json:"license_id"`  

    // The customer ID associated with the license  
    CustomerID string `json:"customer_id"`  

    // If set, an identifier that should be used to lock the license to a
InstallationID string `json:"installation_id"

IssueTime time.Time `json:"issue_time"

StartTime time.Time `json:"start_time"

ExpirationTime time.Time `json:"expiration_time"

TerminationTime time.Time `json:"termination_time"

Product string `json:"product"

Flags map[string]interface{} `json:"flags"

Modules []string `json:"modules"

Features []string `json:"features"

Valid    bool
License  *License
Warnings []string

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
    var reply LicenseReply
    if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
        return nil, err
    } else {
        return &reply, nil
    }
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
    r.params.Set("signed", "1")
r.setQueryOptions(q)
_, resp, err := requireOK(op.c.doRequest(r))
if err != nil {
    return "", err
}
def errCloseResponseBody(resp)

data, err := ioutil.ReadAll(resp.Body)
if err != nil {
    return "", err
}
return string(data), nil

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
def errCloseResponseBody(resp)
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
//
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
def errCloseResponseBody(resp)
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}
if err := decodeBody(resp, &reply); err != nil {
    return nil, err
}

return &reply, nil

{{#if (gt items.length 0)}}
<ListCollection class="consul-intention-permission-list{{if (not onclick) ' readonly'}}" @scroll="native" @items={{items}} @partial={{5}} as [item]>
    <ListCollection @name="details">
        <div onclick={{action (optional onclick) item}}>
            <strong class="intent-{{item.Action}}">{{capitalize item.Action}}</strong>
        </div>
        {{#if (gt item.HTTP.Methods.length 0)}}
            <dl class="permission-methods">
                <dt><Tooltip>Methods</Tooltip></dt>
                <dd>{{#each item.HTTP.Methods as |item|}}{{item}}{{/each}}</dd>
            </dl>
        {{/if}}
        {{#if item.HTTP.Path}}
            <dl class="permission-path">
                <dt><Tooltip>{{item.HTTP.PathType}}
                    </Tooltip></dt>
                <dd>{{item.HTTP.Path}}</dd>
            </dl>
        {{/if}}
        {{#each item.HTTP.Header as |item|}}
            <dl class="permission-header">
                <dt><Tooltip>Header</Tooltip></dt>
                <dd>{{item.HTTP.Path}}</dd>
            </dl>
        {{/each}}
    </ListCollection>
{{/if}}

Open Source Used In Crosswork Platform Infrastructure cw-infra-4.1.0-dockerimages-clean 6371
```hbs preview-template

```
<Notice
@type={ {this.type} }
as {notice}>
<notice.Header>
<h3>Header</h3>
</notice.Header>
<notice.Body>
<p>
Body
</p>
</notice.Body>
<notice.Footer>
<p>
<a href="">Footer link</a>
</p>
</notice.Footer>
</Notice>

<figure>
<figcaption>Provide a widget to change the <code>@type</code></figcaption>
<select
onchange={ {action (mut this.type) value="target.value"} }
>
<option>info</option>
<option>success</option>
<option>warning</option>
<option>error</option>
</select>
</figure>

## Arguments

<table>
<thead>
<tr>
<th>Argument/Attribute</th>
<th>Type</th>
<th>Default</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td><code>String</code></td>
<td><code>info</code></td>
<td>Type of notice [info</td>
</tr>
</tbody>
</table>

## See

- [Template Source Code](./index.hbs)

---

%notice {
  position: relative;
  padding: 0.8rem;
}
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# Frequently Asked Questions (FAQ)

This FAQ is for the license changes introduced in Consul Enterprise version 1.10.0. Consul Enterprise automatically loads Consul licenses when the server agent starts.

## Q: Can I get a quick summary of the Consul changes?

Starting with Consul Enterprise 1.10.0, the license enablement process is different. HashiCorp Enterprise servers will no longer start without a license. Servers require licenses to be provided from either an environment variable or file. If the license is missing, invalid, or expired, the server will immediately exit. This check is part of the server boot-up process.

In previous versions of HashiCorp enterprise products, one server could distribute a license to other servers via the Raft protocol. This will no longer work since each server must be able to find a valid license during the startup process.

## Q: What are the upgrade requirements?

All customers on Consul Enterprise 1.8/1.9 must first upgrade their client and server agents to the latest patch release. During the upgrade the license file must also be configured on client agents in an environment variable or file path, otherwise the Consul agents will fail to retrieve the license with a valid agent token. The upgrade process varies if ACLs are enabled or disabled in the cluster. Refer to the instructions on [upgrading to 1.10.x](/docs/upgrading/instructions/upgrade-to-1-10-x) for details.

## Q: Is there a tutorial available for the license configuration steps?

Please visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise).

## Q: What resources are available?

The list below is a great starting point for learning more about the license changes introduced in Consul Enterprise
1.10.0+ent.

- [Consul Enterprise Upgrade Documentation](https://www.consul.io/docs/enterprise/upgrades)

- [Consul License Documentation](/docs/enterprise/license)

- [License configuration values documentation](/docs/enterprise/license/overview#binaries-without-built-in-licenses)

- [Install a HashiCorp Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise)

## Q: Do these changes impact all customers/licenses?

The license changes introduced in 1.10.0 only affect Consul Enterprise. This impacts customers that have an enterprise binary (evaluation or non-evaluation licenses) downloaded from https://releases.hashicorp.com. The license changes do not impact customers with the baked-in licensed binaries. In a later release of Consul Enterprise, baked-in binaries will be deprecated.

## Q: What is the product behavior change introduced by the licensing changes?

Starting with Consul Enterprise 1.10.0, a valid license is required on-disk (auto-loading) or as an environment variable for Consul Enterprise to successfully boot-up. The in-storage license feature will not be supported starting with Consul Enterprise 1.10.0+ent. All Consul Enterprise clusters using 1.10.0+ent must ensure that there is a valid license on-disk (auto-loaded) or as an environment variable.

## Q: What is the impact on evaluation licenses due to this change?

The 6-hour trial period for evaluation licenses will be deprecated as of Consul Enterprise 1.10.0. This means that any clusters deployed with Consul 1.10.0+ent binaries will need to have a valid license on the disk (auto-loaded) or as an environment variable. Failure to provide a valid license key will result in the Consul server agent not starting.

## Q: Is there a grace period when licenses expire?

A license includes an `expiration_date` and a `termination_date`. An enterprise binary will cease to function once the `termination_date` has passed. Licenses will now have a 24 hrs grace period. The grace period is the time between license expiry until the time it terminates. As Consul Enterprise approaches the expiration date, warnings will be issued in the system logs.

## Q: Does this affect client agents?

There are upgrade requirements that affect Consul Enterprise clients. Please review the [upgrade requirements](faq#what-are-the-upgrade-requirements) documentation.
## Q: Does this affect snapshot agents?

Same behavior as Consul clients. See answer for [Does this affect client agents?](faq#q-does-this-affect-client-agents)

## Q: What is the behavior if the license is missing?

Consul server agents will detect the absence of the license and immediately exit.

Consul client agents will attempt to retrieve the license from servers if certain conditions are met:

- ACLs are enabled.
- An ACL token is provided to the client agent.
- The client agents configuration contains `start_join/retry_join` addresses.
- The start/retry join addresses are addresses of the Consul servers.

Consul snapshot agents will attempt to retrieve the license from servers if certain conditions are met: ACLs are enabled, a ACL token is provided to the client agent, the client agents configuration contains `start_join/retry_join` addresses, the start/retry join addresses are addresses of the Consul servers.

## Q: Where can users get a trial license for Consul Enterprise?

Visit [https://www.consul.io/trial](https://www.consul.io/trial) for a free 30-day trial license.

## Q: Are the license files locked to a specific cluster?

The license files are not locked to a specific cluster or cluster node. The above changes apply to all nodes in a cluster.

## Q: Will this impact HCP Consul?

This will not impact HCP Consul.

## Q: Does this need to happen every time a node restarts, or is this a one-time check?

Consul Enterprise binaries starting with 1.10.0+ent, will be subject to EULA check. Release 1.10.0+ent introduces the EULA check for evaluation licenses (non-evaluation licenses already go through EULA check during contractual agreement).

The agreement to a EULA happens only once (when the user gets their license), Consul Enterprise will check for the presence of a valid license every time a node restarts.

When a customer upgrades existing clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be auto-loaded.

When a customer deploys new clusters to a 1.10.0+ent release, they need to have a valid license to successfully upgrade. This valid license must be on-disk (auto-loaded).
## Q: What are the scenarios that a customer must plan for because of these changes?

New Consul cluster deployments using 1.10.0+ent will need to have a valid license on servers to successfully deploy.
This valid license must be on-disk (auto-loaded) or as an environment variable.
Please see the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

## Q: What is the migration path for customers who want to migrate from their existing license-as-applied-via-the-CLI flow to the license on disk flow?

### VM

1. Run `consul license get -signed` (/commands/license#get) to extract the license from their running cluster. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have access to the required license. This could be via the client agent configuration file or an environment variable.
1. Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.
1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

**NOTE:** If you are not upgrading Consul or your Helm chart version then no action is required.

1. In order to use Consul Enterprise 1.10.0 or greater on Kubernetes you must use version 0.32.0 or greater of the Helm chart.
1. You should already have a Consul Enterprise license set as a Kubernetes secret. If you do not, then if you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license. Once you have the license then create a Kubernetes secret containing the license as described in [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise).
1. Follow the [Kubernetes Upgrade Docs](/docs/k8s/upgrade) to upgrade. No changes to your `values.yaml` file are needed to enable enterprise autoloading since this support is built in to consul-helm 0.32.0 and greater.

-> **WARNING:** If you are upgrading the Helm chart but **not** upgrading the Consul version, you must set `server.enterpriseLicense.enableLicenseAutoload: false`. See [Kubernetes - Consul Enterprise](/docs/k8s/installation/deployment-configurations/consul-enterprise) for more details.

## Q: What is the migration path for customers who want to migrate from their existing perpetually-licensed binaries to the license on disk flow?

### VM

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.
1. Store the license in a secure location on disk.
1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This
could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Follow the Consul upgrade [documentation](/docs/upgrading).

### Kubernetes

1. Acquire a valid Consul Enterprise license. If you are an existing HashiCorp enterprise customer you may contact your organization's customer success manager (CSM) or email support-softwaredelivery@hashicorp.com for information on how to get your organization's enterprise license.

1. Set up the necessary configuration so that when Consul Enterprise reboots it will have the required license. This could be via the client agent configuration file or an environment variable.

Visit the [Enterprise License Tutorial](https://learn.hashicorp.com/tutorials/nomad/hashicorp-enterprise-license?in=consul/enterprise) for detailed steps on how to install the license key.

1. Proceed with the `helm` [upgrade instructions](/docs/k8s/upgrade)

## Q: Will Consul downgrades/rollbacks work?

When downgrading to a version of Consul before 1.10.0+ent, customers will need to follow the previous process for applying an enterprise licenses to Consul Enterprise.

## Q: Are there potential pitfalls when downgrading or upgrading Consul server instances?

-> Verify that you meet the [upgrade requirements](faq#q-what-are-the-upgrade-requirements).

Assume a scenario where there are three Consul server nodes:

- Node A: v1.9.5
- Node B: v1.10.0 [Leader]
- Node C: v1.9.5

The command `consul license put` is issued from Node A. This will result in an error due to how Consul routes calls to the server node, Node B in this example.

Because Node A is a follower when the call `consul license put` is issued, the call will be redirected to Node B (leader).

The `consul license put` operation will fail due to being removed from 1.10.0.

This is a scenario that could occur if a customer downgrades from 1.10.0+ and the Consul leadership has not transferred back over to a node not running 1.10.0+.

This also has the potential of occurring when upgrading if scheduled license updates or autoscaling groups recoveries are in place.

## Q: Any impacts to Consul Kubernetes?

If you are using a Consul Enterprise version prior to 1.10.0 and decide to upgrade the Helm chart to version 0.32.0 or newer, but not the Consul version.

You will need to add the following configuration.

```
server:

enterpriseLicense:
  enableLicenseAutoload: false

---

1.926 x-sys 0.0.0-20211022215931-8e5104632af7

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* Alec Wysoker
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1.928 skalibs 2.10.0.3-r0

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1.933 slf4j-log4j 1.7.25

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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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1.937 google-api-go-client 0.3.2

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1.938 kubernetes-apimachinery 0.17.12

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1.941 cas-client-core 3.6.2

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 * /opt/cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-jar/org/jasig/cas/client/util/package.html
 * /opt/cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-jar/org/jasig/cas/client/proxy/package.html
 * /opt/cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-jar/META-INF/cas/samlRequestTemplate.xml
 * /opt/cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-jar/META-INF/maven/org.jasig.cas.client/cas-client-core/pom.xml
 */
Open Source Used In Crosswork Platform Infrastructure

/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/validation/AssertionImpl.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/validation/json/TicketValidationJsonResponse.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/util/AbstractCasFilter.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/validation/ProxyListEditor.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/configuration/ConfigurationStrategyName.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/validation/TicketValidationException.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/session/SingleSignOutHttpSessionListener.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/authentication/GatewayResolver.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/configuration/ConfigurationKey.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/validation/json/Cas30JsonServiceTicketValidator.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/proxy/Cas20ProxyRetriever.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/authentication/AuthenticationFilter.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/authentication/ExactUrlPatternMatcherStrategy.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/proxy/ProxyGrantingTicketStorage.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/util/IOWare.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/authentication/DefaultAuthenticationRedirectStrategy.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/util/ErrorRedirectFilter.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/authentication/AuthenticationFilter.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/validation/ExactUrlPatternMatcherStrategy.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/validation/Cas20ProxyReceivingTicketValidationFilter.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/validation/Cas20ProxyTicketValidator.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/session/ConfigurationStrategy.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/util/CommonUtils.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/session/ConfigurationStrategy.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/util/DelegatingFilter.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/validation/Cas20ProxyTicketValidator.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/proxy/ProxyGrantingTicketStorage.java
/dep cola/permits/1170796048_1622715292.1/0/cas-client-core-3-6-2-sources-
jar/org/jasig/cas/client/authentication/RedirectFilter.java
1.942 kafka-clients 2.7.0

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1.943 go-resiliency 1.2.0

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1.944 go-runtime 1.16.4

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1.955 go-runtime 1.15.2
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1.967 py3-six 1.15.0-r1

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1.968 tagparser 0.1.1

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1.969 jakarta xml bind api 2.3.2

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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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1.971 gojsondiff 1.0.0

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1.972 grpc-netty-shaded 1.30.2

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1.973 go-cache 2.1.0+incompatible

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1.974 grantae-certinfo 0.0.0-20170412194111-59d56a35515b

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1.975 concurrent 1.3.4

1.975.1 Available under license:
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/*
 File: ReaderPreferenceReadWriteLock.java
Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who   What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReaderPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncSortedMap.java

Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who   What
1Aug1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedMap.java
No license file was found, but licenses were detected in source scan.

/*
File: Semaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who   What
11Jun1998 dl    Create public version
5Aug1998 dl    replaced int counters with longs
24Aug1999 dl    release(n): screen arguments
*/
/*
File: SynchronizationTimer.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
7Jul1998 dl     Create public version
16Jul1998 dl     fix intialization error for compute loops
                combined into one frame
                misc layout and defaults changes
                increase printed precision
                overlap get/set in Executor tests
27Jan1999 dl     Eliminate GC calls
24Nov2001 dl     Increase some default values
30Aug1998 dl     Misc revisions to mesh with 1.1.0
                reflective constructor now uses longs too.
*/

/*
File: SemaphoreControlledChannel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
16Jun1998 dl     Create public version
5Aug1998 dl     replaced int counters with longs
08Dec2001 dl     reflective constructor now uses longs too.
*/
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SemaphoreControlledChannel.java
No license file was found, but licenses were detected in source scan.

/*
File: Task.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
7Jan1999 dl    first release
14Jan1999 dl    simplify start() semantics;
                 improve documentation
18Jan1999 dl    Eliminate useless time-based waits.
7Mar1999 dl    Add reset method,
               add array-based composite operations
27Apr1999 dl    Rename
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FJTask.java
No license file was found, but licenses were detected in source scan.

/*
File: LayeredSync.java

Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
1Aug1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LayeredSync.java
No license file was found, but licenses were detected in source scan.
/*
File: ClockDaemon.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who       What
29Aug1998 dl    created initial public version
17dec1998 dl    null out thread after shutdown
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ClockDaemon.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableLong.java

Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who       What
23Jun1998 dl    Create public version
13may2004 dl    Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableLong.java
No license file was found, but licenses were detected in source scan.

/*
File: PooledExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
*
19Jun1998 dl Create public version
29Aug1998 dl rely on ThreadFactoryUser, remove ThreadGroup-based methods, adjusted locking policies
3Mar1999 dl Worker threads sense decreases in pool size
31Mar1999 dl Allow supplied channel in constructor; add methods createThreads, drain
15May1999 dl Allow infinite keepalives
21Oct1999 dl add minimumPoolSize methods
7Sep2000 dl BlockedExecutionHandler now an interface, new DiscardOldestWhenBlocked policy
12Oct2000 dl add shutdownAfterProcessingCurrentlyQueuedTasks
13Nov2000 dl null out task ref after run
8Apr2001 dl declare inner class ctor protected
12Nov2001 dl Better shutdown support
12Nov2001 dl Blocked exec handlers can throw IE
   Simplify locking scheme
25Jan2001 dl {get,set}BlockedExecutionHandler now public
17May2002 dl null out task var in worker run to enable GC.
30Aug2003 dl check for new tasks when timing out
18Feb2004 dl replace dead thread if no others left
*/

Found in path(s):
 * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/PooledExecutor.java
No license file was found, but licenses were detected in source scan.

/*
File: Rendezvous.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who     What
11Jun1998 dl Create public version
30Jul1998 dl Minor code simplifications
*/

Found in path(s):
 * /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Rendezvous.java
No license file was found, but licenses were detected in source scan.

/*
File: Executor.java

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History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>19Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

File: FIFOReadWriteLock.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>23Nov2001</td>
<td>dl</td>
<td>Replace main algorithm with fairer version based on one by Alexander Terekhov</td>
</tr>
</tbody>
</table>

File: TimeoutException.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>29Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>
4Aug1998   dl   Change to extend InterruptedException

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/TimeoutException.java
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/taskDemo/Heat.java
No license file was found, but licenses were detected in source scan.

/ *
 File: PropertyChangeMulticaster.java

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and everyone contributing, testing, and using this code.

This class is based on Sun JDK java.beans.VetoableChangeSupport,
which is copyrighted by Sun. (It shares practically no code, but for
consistency, the documentation was lifted and adapted here.)

History:
Date Who What
14Mar1999 dl first release

/*

File: LockedExecutor.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
21Jun1998 dl Create public version

/*

File: SynchronizedLong.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
19Jun1998 dl Create public version
15Apr2003 dl Removed redundant "synchronized" for multiply()
23jan04 dl synchronize self-swap case for swap
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedLong.java
No license file was found, but licenses were detected in source scan.

/*
File: ReentrantLock.java

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and everyone contributing, testing, and using this code.

History:
Date Who What
11Jun1998 dl Create public version
5Aug1998 dl replaced int counters with longs
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReentrantLock.java
No license file was found, but licenses were detected in source scan.

/*
File: TimeoutSync.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date Who What
1Aug1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/TimeoutSync.java
No license file was found, but licenses were detected in source scan.

/*
File: FJTaskRunner.java
Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
7Jan1999 dl    First public release
13Jan1999 dl    correct a stat counter update;
                ensure inactive status on run termination;
                misc minor cleanup
14Jan1999 dl    Use random starting point in scan;
                variable renamings.
18Jan1999 dl    Runloop allowed to die on task exception;
                remove useless timed join
22Jan1999 dl    Rework scan to allow use of priorities.
6Feb1999 dl    Documentation updates.
7Mar1999 dl    Add array-based coInvoke
31Mar1999 dl    Revise scan to remove need for NullTasks
27Apr1999 dl    Renamed
23Oct1999 dl    Earlier detect of interrupt in scanWhileIdling
24Nov1999 dl    Now works on JVMs that do not properly implement read-after-write of 2 volatiles.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunner.java
No license file was found, but licenses were detected in source scan.

/ *
File: Takable.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/Takable.java
No license file was found, but licenses were detected in source scan.
/*
File: Slot.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who  What
11Jun1998 dl Create public version
25Aug1998 dl added peek
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Slot.java
No license file was found, but licenses were detected in source scan.

/*
File: WaiterPreferenceSemaphore.java

Originally written by Doug Lea and released into the public domain.
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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who  What
11Jun1998 dl Create public version
5Aug1998 dl replaced int counters with longs
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaiterPreferenceSemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: FutureResult.java

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This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who  What
30Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FutureResult.java
No license file was found, but licenses were detected in source scan.

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File: CopyOnWriteArrayList.java

Written by Doug Lea. Adapted and released, under explicit permission, from JDK1.2 ArrayList.java which carries the following copyright:

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* you entered into with Sun.

History:
Date       Who                What
21Jun1998  dl               Create public version
9Oct1999   dl               faster equals
29Jun2001  dl               Serialization methods now private
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArrayList.java
No license file was found, but licenses were detected in source scan.

/*
File: ThreadedExecutor.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
21Jun1998  dl               Create public version
factored out ThreadFactoryUser

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/ThreadedExecutor.java
No license file was found, but licenses were detected in source scan.

File: WaitFreeQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who          What
16Jun1998  dl       Create public version
5Aug1998  dl       replaced int counters with longs
17Nov2001  dl       Simplify given Bill Pugh's observation
                     that counted pointers are unnecessary.

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/WaitFreeQueue.java
No license file was found, but licenses were detected in source scan.

File: Mutex.java

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This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
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History:
Date   Who          What
11Jun1998  dl       Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/Mutex.java
No license file was found, but licenses were detected in source scan.
File: BoundedPriorityQueue.java

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History:
Date   Who   What
16Jun1998 dl   Create public version
25aug1998 dl   added peek
29aug1998 dl   pulled heap mechanics into separate class

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedPriorityQueue.java
No license file was found, but licenses were detected in source scan.

/*

File: BoundedChannel.java

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History:
Date   Who   What
11Jun1998 dl   Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedChannel.java
No license file was found, but licenses were detected in source scan.

/*

File: SynchronizedShort.java

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History:
Date   Who   What
19Jun1998 dl   Create public version
Removed redundant "synchronized" for multiply()

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedShort.java
No license file was found, but licenses were detected in source scan.

File: ReentrantWriterPreferenceReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who         What
26aug1998 dl   Create public version
7sep2000 dl   Readers are now also reentrant
19jan2001 dl   Allow read->write upgrades if the only reader
10dec2002 dl   Throw IllegalStateException on extra release

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReentrantWriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

File: Callable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who         What
30Jun1998 dl   Create public version
5Jan1999 dl   Change Exception to Throwable in call signature
27Jan1999 dl   Undo last change

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Callable.java
No license file was found, but licenses were detected in source scan.

/
File: PrioritySemaphore.java

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Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl   Create public version

/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/PrioritySemaphore.java
No license file was found, but licenses were detected in source scan.

/
File: WaitableRef.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
19Jun1998 dl   Create public version

/*

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
   jar/EDU/oswego/cs/dl/util/concurrent/WaitableRef.java
No license file was found, but licenses were detected in source scan.

/
File: LinkedQueue.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl Create public version
25aug1998 dl added peek
10dec1998 dl added isEmpty
10oct1999 dl lock on node object to ensure visibility
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LinkedQueue.java
No license file was found, but licenses were detected in source scan.

*/

File: ConcurrentHashMap

Written by Doug Lea. Adapted and released, under explicit permission, from JDK1.2 HashMap.java and Hashtable.java which carries the following copyright:

* Copyright 1997 by Sun Microsystems, Inc.,
* 901 San Antonio Road, Palo Alto, California, 94303, U.S.A.
* All rights reserved.
*
* This software is the confidential and proprietary information
* of Sun Microsystems, Inc. ("Confidential Information"). You
* shall not disclose such Confidential Information and shall use
* it only in accordance with the terms of the license agreement
* you entered into with Sun.

History:
Date Who What
26nov2000 dl Created, based on ConcurrentReaderHashMap
12jan2001 dl public release
17nov2001 dl Minor tunings
24oct2003 dl Segment implements Serializable
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentHashMap.java
No license file was found, but licenses were detected in source scan.

*/

File: BoundedBuffer.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.
History:
Date       Who                What
11Jun1998  dl               Create public version
17Jul1998  dl               Simplified by eliminating wait counts
25aug1998  dl               added peek
5May1999  dl               replace % with conditional (slightly faster)
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedBuffer.java
No license file was found, but licenses were detected in source scan.

/*@
File: SyncSortedSet.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998   dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncSortedSet.java
No license file was found, but licenses were detected in source scan.

/*@
File: Channel.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
25aug1998  dl               added peek
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/Channel.java
No license file was found, but licenses were detected in source scan.

/*
File: NullSync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998   dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/NullSync.java
No license file was found, but licenses were detected in source scan.

/*
File: QueuedSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
5Aug1998   dl               replaced int counters with longs
24Aug1999  dl               release(n): screen arguments
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/QueuedSemaphore.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableChar.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date       Who                What
23Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableChar.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
15Apr2003  dl               Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedByte.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableByte.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date       Who                What
23Jun1998  dl               Create public version
13may2004  dl               Add notifying bit ops
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableByte.java
No license file was found, but licenses were detected in source scan.

/*
File: BoundedLinkedQueue.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
<tr>
<td>17Jul1998</td>
<td>dl</td>
<td>Simplified by eliminating wait counts</td>
</tr>
<tr>
<td>25aug1998</td>
<td>dl</td>
<td>added peek</td>
</tr>
<tr>
<td>10oct1999</td>
<td>dl</td>
<td>lock on node object to ensure visibility</td>
</tr>
<tr>
<td>27jan2000</td>
<td>dl</td>
<td>setCapacity forces immediate permit reconcile</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/BoundedLinkedQueue.java
No license file was found, but licenses were detected in source scan.

/*
File: SwingWorker.java

Originally written by Joseph Bowbeer and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Originally part of jozart.swingutils. Adapted for util.concurrent by Joseph Bowbeer.

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/misc/SwingWorker.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronousChannel.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

*/
History:
Date       Who                What
11Jun1998  dl               Create public version
17Jul1998  dl               Disabled direct semaphore permit check
31Jul1998  dl               Replaced main algorithm with one with better scaling and fairness properties.
25Aug1998  dl               added peek
24Nov2001  dl               Replaced main algorithm with faster one.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronousChannel.java
No license file was found, but licenses were detected in source scan.

/*
File: ThreadFactory.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
30Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactory.java
No license file was found, but licenses were detected in source scan.

/*
File: Puttable.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
11Jun1998  dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
No license file was found, but licenses were detected in source scan.

/*
File: Sync.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl   Create public version
5Aug1998 dl   Added some convenient time constants
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/Sync.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableDouble.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
23Jun1998 dl   Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
jar/EDU/oswego/cs/dl/util/concurrent/WaitableDouble.java
No license file was found, but licenses were detected in source scan.

/*
File: DirectExecutor.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.
History:
Date    Who    What
21Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/DirectExecutor.java
No license file was found, but licenses were detected in source scan.

/*
File: Heap.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
29Aug1998 dl    Refactored from BoundedPriorityQueue
08dec2001 dl    Null out slots of removed items
03feb2002 dl    Also null out in clear
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/Heap.java
No license file was found, but licenses were detected in source scan.

/*
File: ConditionVariable.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CondVar.java
No license file was found, but licenses were detected in source scan.
File: SyncMap.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who    What
1Aug1998 dl      Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SyncMap.java
No license file was found, but licenses were detected in source scan.

File: WaitableShort.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who    What
23Jun1998 dl     Create public version
13may2004 dl     Add notifying bit ops

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableShort.java
No license file was found, but licenses were detected in source scan.

File: ReadWriteLock.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998 dl     Create public version
Open Source Used In Crosswork Platform Infrastructure cw-infra-4.1.0-dockerimages-clean 6747

/*
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ReadWriteLock.java
No license file was found, but licenses were detected in source scan.

*/

File: SynchronizedFloat.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
19Jun1998  dl  Create public version
15Apr2003  dl  Removed redundant "synchronized" for multiply()

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedFloat.java
No license file was found, but licenses were detected in source scan.

*/

File: FIFOSemaphore.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who    What
11Jun1998  dl  Create public version

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/FIFOSemaphore.java
No license file was found, but licenses were detected in source scan.

*/

File: SynchronizedInt.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
19Jun1998  dl               Create public version
15Apr2003  dl               Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedInt.java
No license file was found, but licenses were detected in source scan.

/*
File: QueuedExecutor.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
21Jun1998  dl               Create public version
28aug1998  dl               rely on ThreadFactoryUser, restart now public
4may1999   dl               removed redundant interrupt detect
7sep2000   dl               new shutdown methods
20may2004  dl               can shutdown even if thread not created yet
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/QueuedExecutor.java
No license file was found, but licenses were detected in source scan.

/*
File: SyncSet.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date       Who                What
1Aug1998   dl               Create public version
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SyncSet.java
No license file was found, but licenses were detected in source scan.

File: SynchronizedBoolean.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date     Who      What
19Jun1998 dl      Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedBoolean.java
No license file was found, but licenses were detected in source scan.

File: DefaultChannelCapacity.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment. Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date     Who      What
11Jun1998 dl      Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/DefaultChannelCapacity.java
No license file was found, but licenses were detected in source scan.

File: LinkedNode.java

Originally written by Doug Lea and released into the public domain. This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
11Jun1998 dl  Create public version
25may2000 dl  Change class access to public
26nov2001 dl  Added no-arg constructor, all public access.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/LinkedNode.java
No license file was found, but licenses were detected in source scan.

/*
File: ThreadFactoryUser.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
28aug1998 dl  refactored from Executor classes
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ThreadFactoryUser.java
No license file was found, but licenses were detected in source scan.

/*
File: WaitableInt.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs, and everyone contributing, testing, and using this code.

History:
Date    Who    What
23Jun1998 dl  Create public version
13may2004 dl  Add notifying bit ops
*/

Found in path(s):
No license file was found, but licenses were detected in source scan.

/*
File: CountDown.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl   Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/CountDown.java
No license file was found, but licenses were detected in source scan.

/*
File: WriterPreferenceReadWriteLock.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date   Who   What
11Jun1998 dl   Create public version
5Aug1998 dl   replaced int counters with longs
25aug1998 dl   record writer thread
3May1999 dl   add notifications on interrupt/timeout
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WriterPreferenceReadWriteLock.java
No license file was found, but licenses were detected in source scan.

/*
File: FJTaskRunnerGroup.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>7Jan1999</td>
<td>dl</td>
<td>First public release</td>
</tr>
<tr>
<td>12Jan1999</td>
<td>dl</td>
<td>made getActiveCount public; misc minor cleanup.</td>
</tr>
<tr>
<td>14Jan1999</td>
<td>dl</td>
<td>Added executeTask</td>
</tr>
<tr>
<td>20Jan1999</td>
<td>dl</td>
<td>Allow use of priorities; reformat stats</td>
</tr>
<tr>
<td>6Feb1999</td>
<td>dl</td>
<td>Lazy thread starts</td>
</tr>
<tr>
<td>27Apr1999</td>
<td>dl</td>
<td>Renamed</td>
</tr>
</tbody>
</table>

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

version.

All classes are released to the public domain and may be used

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/FJTaskRunnerGroup.java

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

*/

File: Latch.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:

<table>
<thead>
<tr>
<th>Date</th>
<th>Who</th>
<th>What</th>
</tr>
</thead>
<tbody>
<tr>
<td>11Jun1998</td>
<td>dl</td>
<td>Create public version</td>
</tr>
</tbody>
</table>

*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/Latch.java
No license file was found, but licenses were detected in source scan.

/*
File: Barrier.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who    What
11Jun1998 dl  Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/Barrier.java
No license file was found, but licenses were detected in source scan.

/*
File: SynchronizedDouble.java

Originally written by Doug Lea and released into the public domain.
This may be used for any purposes whatsoever without acknowledgment.
Thanks for the assistance and support of Sun Microsystems Labs,
and everyone contributing, testing, and using this code.

History:
Date  Who    What
19Jun1998 dl  Create public version
15Apr2003 dl  Removed redundant "synchronized" for multiply()
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1- jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedDouble.java
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/*
File: Fraction.java

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History:
Date       Who                What
7Jul1998   dl               Create public version
11Oct1999  dl               add hashCode
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/misc/Fraction.java
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File: ObservableSync.java

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History:
Date       Who                What
1Aug1998   dl               Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/ObservableSync.java
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File: ConcurrentReaderHashMap

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History:
Date       Who                What
28oct1999  dl               Created
14dec1999 dl jmm snapshot
19apr2000 dl use barrierLock
12jan2001 dl public release
17nov2001 dl Minor tunings
20may2002 dl BarrierLock can now be serialized.
09dec2002 dl Fix interference checks.
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/ConcurrentReaderHashMap.java
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File: SyncCollection.java

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History:
Date   Who     What
1Aug1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/SyncCollection.java
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File: BrokenBarrierException.java

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History:
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29Jun1998 dl    Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1.jar/EDU/oswego/cs/dl/util/concurrent/BrokenBarrierException.java
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File: WaitableFloat.java

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History:
Date Who What
23Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/WaitableFloat.java
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History:
Date Who What
19Jun1998 dl Create public version
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedChar.java
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History:
Date Who What
Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedRef.java
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File: WaitableBoolean.java

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History:
Date    Who    What
19Jun1998 dl    Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
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History:
Date    Who    What
30Jun1998 dl    Create public version

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  jar/EDU/oswego/cs/dl/util/concurrent/SynchronizedVariable.java
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File: CyclicBarrier.java

Originally written by Doug Lea and released into the public domain.
History:
Date       Who        What
11Jul1998  dl        Create public version
28Aug1998  dl        minor code simplification
*/

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/Util/concurrent/CyclicBarrier.java
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This class is based on Sun JDK java.beans.VetoableChangeSupport,
which is copyrighted by Sun. (It shares practically no code, but for
consistency, the documentation was lifted and adapted here.)

History:
Date       Who        What
14Mar1999  dl        first release
*/

Found in path(s):
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File: SyncList.java

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History:
Date       Who        What
1Aug1998   dl        Create public version
Found in path(s):
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  jar/EDU/oswego/cs/dl/util/concurrent/SyncList.java
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History:
Date   Who   What
22Jun1998 dl   Create public version

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/CopyOnWriteArraySet.java
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TimedCallable.java

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Originally part of jozart.swingutils.
Adapted by Doug Lea for util.concurrent.

History:
Date   Who   What
11dec1999 dl   Adapted for util.concurrent

Found in path(s):
* /opt/cola/permits/1108370201_1606134306.42/0/concurrent-1-3-4-sources-1-
  jar/EDU/oswego/cs/dl/util/concurrent/TimedCallable.java

1.976 logrus 1.6.0
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1.977 gojsonpointer 0.0.0-20180127040702-4e3ac2762d5f

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1.979 xorm.io-xorm 0.8.1

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1.980 gopsutil 2.20.9+incompatible

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1.993 kubernetes-klog 1.0.0

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* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/ClassesLoader.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/BidirectionalAction.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/tools/BidirectionalActionImpl.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/DirectoryClassLoader.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/exceptions/WrongParameterType.java
* /opt/ws_local/PERMITS_SQL/1023201257_1591382095.57/0/reflection-0-9-12-sources-jar/com/nu/art/reflection/classLoader/AbsClassLoader.java
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1.996 gomodule-redigo 2.0.0+incompatible

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1.998 netty-buffer 4.1.48.Final

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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/EmptyHeaders.java
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  jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
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  jar/io/netty/handler/codec/ByteToMessageDecoder.java
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  jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
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  jar/io/netty/handler/codec/compression/JZlibEncoder.java
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  jar/io/netty/handler/codec/MessageToMessageDecoder.java
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  jar/io/netty/handler/codec/compression/ZlibUtil.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/MessageAggregator.java
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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-jar/io/netty/handler/codec/CodecException.java
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/**
 * Utility class for {@link ByteBuf} that encodes and decodes to and from
 * <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
 * 
 * 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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* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
  jar/io/netty/handler/codec/compression/Crc32c.java
* /opt/ws_local/PERMITS_SQL/1068233848_1594324549.89/0/netty-codec-4-1-50-final-sources-1-
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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>

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* 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.
* <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" |
* +--------+----------------+      +--------+----------------+
* </pre>

* <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 \texttt{initialBytesToStrip}. In this example, we
* specified \texttt{2}, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* </pre>

* BEFORE DECODE (14 bytes)         AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>

* <h3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>

* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* \texttt{lengthAdjustment}. Because the length value in this example message
* is always greater than the body length by \texttt{2}, we specify \texttt{-2}
* as \texttt{lengthAdjustment} for compensation.
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 2
* initialBytesToStrip = 0

* BEFORE DECODE (14 bytes) AFTER DECODE (14 bytes)

* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* +--------+----------------+      +--------+----------------+

* 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. lengthAdjustment is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* lengthFieldOffset = 2
* lengthFieldLength = 3
* lengthAdjustment = 0
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)

* +----------+----------+----------------+      +----------+----------+----------------+
* | Header 1 |  Length  | Actual Content |----->| Header 1 |  Length  | Actual Content |
* +----------+----------+----------------+      +----------+----------+----------------+
</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 lengthAdjustment so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset = 0
* lengthFieldLength = 3
* lengthAdjustment = 2
* initialBytesToStrip = 0

* BEFORE DECODE (17 bytes) AFTER DECODE (17 bytes)

* +----------+----------+----------------+      +----------+----------+----------------+
* |  Length  | Header 1 | Actual Content |----->|  Length  | Header 1 | Actual Content |
* +----------+----------+----------------+      +----------+----------+----------------+
</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 lengthFieldOffset and the extra header affects the lengthAdjustment. We also specified a non-zero initialBytesToStrip to strip the length field and the prepended header from the frame. If you don't want to strip the prepended header, you could specify initialBytesToSkip.

lengthFieldOffset = 1 (= the length of HDR1)
lengthFieldLength = 2
lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
initialBytesToStrip = 3

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)

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
lengthAdjustment = -3 (= the length of HDR1 + LEN, negative)
initialBytesToStrip = 3

BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* @see LengthFieldPrepender
*/

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* <p>
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* /*

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cw-infra-4.1.0-dockerimages-clean

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jar/org/springframework/aop/aspectj/SingletonAspectInstanceFactory.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/aspectj/AspectJAfterAdvice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/aspectj/annotation/PrototypeAspectInstanceFactory.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/ProxyMethodInvocation.java
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  jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
  jar/org/springframework/aop/framework/autoproxy/TargetSource.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
  jar/org/springframework/aop/framework/autoproxy/AbstractLazyCreationTargetSource.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
  jar/org/springframework/aop/framework/autoproxy/AutoProxyUtils.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
  jar/org/aopalliance/intercept/MethodInterceptor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
  jar/org/springframework/aop/TargetSource.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
  jar/org/springframework/aop/framework/autoproxy/AbstractLazyCreationTargetSource.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
  jar/org/springframework/aop/configuration/NotAnAtAspectException.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
  jar/org/springframework/aop/configuration/MethodInterceptor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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  jar/org/springframework/aop/configuration/MethodInterceptor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
  jar/org/springframework/aop/configuration/AnyCriteriaFilter.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/AopInfrastructureBean.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/BeforeAdvice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
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jar/org/springframework/aop/SpringProxy.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/AopInfrastructureBean.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-
jar/org/springframework/aop/AfterAdvice.java

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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/aopalliance/intercept/ConstructorInterceptor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/aopalliance/aop/Advice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/aopalliance/aop/Invocation.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/config/AspectJAutoProxyBeanDefinitionParser.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/autoproxy/TargetSourceCreator.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/annotation/MetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/ProxyFactory.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/interceptor/CustomizableTraceInterceptor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/interceptor/AbstractMonitoringInterceptor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/ProxyFactoryBean.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/framework/ProxyFactoryBean.java

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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/support/NameMatchMethodPointcutAdvisor.java
* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/framework/autoproxy/target/LazyInitTargetSourceCreator.java
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* /opt/cola/permits/1135872535_1613620847.49/0/spring-aop-5-2-12-release-sources-jar/org/springframework/aop/aspectj/AspectJWeaverMessageHandler.java
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* /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/...
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)

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',
    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(),
)

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====

webencodings.mklables
~~~~~~~~~~~~~~~

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 = "\n
====

webencodings.labels
~~~~~~~~~~~~~~~

Map encoding labels to their name.

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====

# XXX Do not edit!
# This file is automatically generated by mklables.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/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.

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Classifier: Development Status :: 4 - Beta
Classifier: Intended Audience :: Developers
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Classifier: Programming Language :: Python :: 2
Classifier: Programming Language :: Python :: 2.6
Classifier: Programming Language :: Python :: 2.7
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Classifier: Programming Language :: Python :: 3.4
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP

Found in path(s):
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1/tar-gz/webencodings-0.5.1/PKG-INFO
* /opt/cola/permits/1110814957_1606854649.94/0/webencodings-0.5.1/webencodings.egg-info/PKG-INFO

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python-webencodings

This is a Python implementation of the `WHATWG Encoding standard
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* Latest documentation: http://packages.python.org/webencodings/
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* /opt/cola/permits/1110814957_1606854649.940/webencodings-0-5-1-1.tar.gz/webencodings-0.5.1/README.rst

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**1.1023 xorg-randr 6.8.2**

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1.1026 scala 2.13.3

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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)

val y: ((Int, Int) => Int) = (((a, *)) => a)

val z: ((Int, Int, Int) => Int) = (((a, NotAPatternVariableName, c)) => a)

3 errors

Scala includes the jQuery library:

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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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/**
 * 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>`

<p>`</p>

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

<p>`</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}<Message> {

    private boolean loggedIn;

    <code><strong>@Override</strong></code>
    public void channelRead0({ @link ChannelHandlerContext} ctx, Message message) {
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) message);
            <b>loggedIn = true;</b>
        } else (message instanceof GetDataMessage) {
            if (<b>loggedIn</b>) {
                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 a unauthenticated client can get
* the confidential information:
* 
* // Create a new handler instance per channel.
* // See @ChannelInitializer#initChannel(Channel).
* public class DataServerInitializer extends @ChannelInitializer&lt;Channel&gt; {
*   @Override
*   public void initChannel(Channel channel) {
*       channel.pipeline().addLast("handler", new DataServerHandler());
*   }
* }
* 
* <h4>Using @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 @AttributeKey)s which is provided by
* @ChannelHandlerContext:
* 
* public interface Message {
*   // your methods here
* }
* 
* @Sharable
* public class DataServerHandler extends @SimpleChannelInboundHandler<Message> {
*   private final @AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");
*   
*   @Override
*   public void channelRead(@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 {
*               fail();
*           }
*       }
*   }
* }
*
Now that the state of the handler is attached to the `@link ChannelHandlerContext`, you can add the same handler instance to different pipelines:

```java
public class DataServerInitializer extends `@link ChannelInitializer`<{@link Channel}> {

    private static final DataServerHandler SHARED = new DataServerHandler();

    `@code @Override`
    public void initChannel({@link Channel} channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}
```

### The `@Sharable` annotation

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 a [a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>. Additional resources worth reading

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/ChannelFactory.java
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localtime.go, localtime_test.go:

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Changes:
    * Renamed files from civil* to localtime*.
    * Package changed from civil to toml.
    * 'Local' prefix added to all structs.
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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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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1040 go-difflib 1.0.0

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1.1041 jackc-chunkreader 2.0.1

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1.1043 jackson-dataformat-yaml 2.12.0
1.1043.1 Available under license:

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1.1044 log4j-jcl 2.14.0

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1.1045 rocksdb 1.1.8

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1.1046 x-sys 0.0.0-20210615035016-665e8c7367d1

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* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/event/AuthorizedEvent.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/event/AuthenticationCredentialsNotFoundEvent.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/method/MethodSecurityMetadataSource.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/intercept/RunAsImplAuthenticationProvider.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/ConfigAttribute.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/authentication/AuthenticationProvider.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/intercept/RunAsManager.java
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* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/prepost/PostInvocationAdviceProvider.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/expression/ExpressionUtils.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/annotation/package-info.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/core/session/package-info.java
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* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/core/CredentialsContainer.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/method/AbstractFallbackMethodSecurityMetadataSource.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/authentication/AccountStatusException.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/prepost/PreFilter.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/prepost/PreInvocationAttribute.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/prepost/PrePostAnnotationSecurityMetadataSource.java
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* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/core/provisioning/package-info.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/annotation/Jsr250Voter.java
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* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesGcmBytesEncryptor.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/crypto/encrypt/BouncyCastleAesCbcBytesEncryptor.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/crypto/password/PasswordEncoder.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java
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* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/crypto/Encryptor.java
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* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-
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 */

/**
 * A token issued by {@link TokenService}.
 *
 * <p>
 * It is important that the keys assigned to tokens are sufficiently randomised and
 * secured that they can serve as identifying a unique user session. Implementations of
 * {@link TokenService} are free to use encryption or encoding strategies of their choice.
 * It is strongly recommended that keys are of sufficient length to balance safety against
 * persistence cost. In relation to persistence cost, it is strongly recommended that
 * returned keys are small enough for encoding in a cookie.
 * </p>
 *
 * @author Ben Alex
 * @since 2.0.1
 */

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  jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
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  jar/org/springframework/security/authentication/jaas/AbstractJaasAuthenticationProvider.java

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*/
/**
 * @param authentication represents the user in question. Should not be null.
 * @param targetDomainObject the domain object for which permissions should be
 * checked. May be null in which case implementations should return false, as the null
 * condition can be checked explicitly in the expression.
 * @param permission a representation of the permission object as supplied by the
 * expression system. Not null.
 * @return true if the permission is granted, false otherwise
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*/
/**
 * Reviews the <code>Object</code> returned from a secure object invocation, being able to
 * modify the <code>Object</code> or throw an [ @link AccessDeniedException ].
 * <p>
 * Typically used to ensure the principal is permitted to access the domain object
 * instance returned by a service layer bean. Can also be used to mutate the domain object
 * instance so the principal is only able to access authorised bean properties or
 * <code>Collection</code> elements.
 * <p>
 * Special consideration should be given to using an <code>AfterInvocationManager</code>
 * on bean methods that modify a database. Typically an
 * <code>AfterInvocationManager</code> is used with read-only methods, such as
 * <code>public DomainObject getById(id)</code>. If used with methods that modify a
* database, a transaction manager should be used to ensure any
* `<code>`AccessException`<code>` will cause a rollback of the changes made by the
* transaction.
* </p>
* *
* @author Ben Alex
*/

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  jar/org/springframework/security/jackson2/UnmodifiableSetMixin.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-
  jar/org/springframework/security/jackson2/UsernamePasswordAuthenticationTokenMixin.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-
  jar/org/springframework/security/jackson2/SimpleGrantedAuthorityMixin.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-
  jar/org/springframework/security/jackson2/CoreJackson2Module.java
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  jar/org/springframework/security/jackson2/UserMixin.java
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  jar/org/springframework/security/jackson2/AnonymousAuthenticationTokenMixin.java
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  jar/org/springframework/security/authentication/DefaultAuthenticationEventPublisher.java
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  jar/org/springframework/security/core/session/SessionCreationEvent.java
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*/
/**
* Determines if the {link #getAuthentication()} has permission to access the target
* given the permission
* @param target the target domain object to check permission on
* @param permission the permission to check on the domain object (i.e. "read",
* "write", etc).
* @return true if permission is granted to the {link #getAuthentication()}, else
* false
*/

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* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/crypto/argont2/Argon2EncodingUtils.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/converter/RsaKeyConverters.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/expression/method/ExpressionBasedPreInvocationAdvice.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
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* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-jar/org/springframework/security/core/UserDetailsPasswordService.java
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  jar/org/springframework/security/crypto/password/LdapShaPasswordEncoder.java
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  jar/org/springframework/security/crypto/password/Md4PasswordEncoder.java
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  jar/org/springframework/security/crypto/keygen/Base64StringKeyGenerator.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-
  jar/org/springframework/security/access/prepost/PrePostAdviceReactiveMethodInterceptor.java
* /opt/cola/permits/1200967112_1631037409.92/0/spring-security-core-5-4-2-sources-3-
  jar/org/springframework/security/authorization/AuthorityReactiveAuthorizationManager.java
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  jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
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 *
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 * @since 3.0
 * @deprecated Use java.util.Base64
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1.1055 jackson 2.12.0
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1.2.1

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1068 jackson-datatype-jdk8 2.11.4
1.1068.1 Available under license:
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Manifest-Version: 1.0
Bnd-LastModified: 1607734244150
Build-Jdk-Spec: 1.8
Bundle-Description: Add-on module for Jackson (http://jackson.codehaus.org) to support JDK 8 data types.
Bundle-DocURL: https://github.com/FasterXML/jackson-modules-java8/jackson-datatype-jdk8
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson datatype: jdk8
Bundle-SymbolicName: com.fasterxml.jackson.datatype.jackson-datatype-jdk8
Bundle-Vendor: FasterXML
Bundle-Version: 2.11.4
Created-By: Apache Maven Bundle Plugin
1.1069 gson 2.8.5

1.1070 jetty-servlet 8.1.7.v20120910

1.1071 py3-appdirs 1.4.4-r2
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1.1072 libgpg-error 1.42-r0

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

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

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

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can be directly used with curl / libcurl / php_curl, or with
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1.1091 goprotobuf 1.3.1

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1.1094 blang-semver 3.5.1+incompatible

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1.1095 animal-sniffer-annotation 1.18

1.1096 jackson-jaxrs 2.12.0

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# Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library. It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has been in development since 2007.

It is currently developed by a community of developers, as well as supported commercially by FasterXML.com.

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1.1098 yajl 2.1.0-r1
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1.1100 llvm11-libs 11.1.0-r2
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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>
define void @autogen_SD4739(i8*) {
  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
}

Test that early if conversion produces LOCR with operands of the right register classes.

define void @autogen_SD4739(i8*) {

  %L34 = load i8, i8* %0
  %Cmp56 = icmp sgt i8 undef, %L34
  br label %CF246
}

; NOTE: Assertions have been autogenerated by utils/update_llc_test_checks.py
; RUN: llc < %s -mtriple=aarch64-linux-gnu -mcpu=arcturus -verify-machineinstrs | FileCheck %s
; 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
}

; This file primarily contains tests for specific places in X86ISelLowering.cpp that needed be made aware of the legalizer not allowing 512-bit vectors due to prefer-256-bit even though AVX512 is enabled.
define void @add256(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="256" {
; CHECK-LABEL: add256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1
; CHECK-NEXT: vpadd 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 void @add512(<16 x i32>* %a, <16 x i32>* %b, <16 x i32>* %c) "min-legal-vector-width"="512" {
; CHECK-LABEL: add512:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
; CHECK-NEXT: vpadd (%rsi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%d = load <16 x i32>, <16 x i32>* %a
%e = load <16 x i32>, <16 x i32>* %b
%f = add <16 x i32> %d, %e
store <16 x i32> %f, <16 x i32>* %c
ret void
}

define void @avg_v64i8_256(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="256" {
; CHECK-LABEL: avg_v64i8_256:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm1
; CHECK-NEXT: vpavgb (%rdi), %ymm0, %ymm0
; CHECK-NEXT: vpavgb 32(%rdi), %ymm1, %ymm1
; CHECK-NEXT: vmovdqu %ymm1, (%rax)
; CHECK-NEXT: vmovdqu %ymm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>

%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}

define void @avg_v64i8_512(<64 x i8>* %a, <64 x i8>* %b) "min-legal-vector-width"="512" {
; CHECK-LABEL: avg_v64i8_512:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa64 (%rsi), %zmm0
; CHECK-NEXT: vpavgb (%rdi), %zmm0, %zmm0
; CHECK-NEXT: vmovdqu64 %zmm0, (%rax)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%1 = load <64 x i8>, <64 x i8>* %a
%2 = load <64 x i8>, <64 x i8>* %b
%3 = zext <64 x i8> %1 to <64 x i32>
%4 = zext <64 x i8> %2 to <64 x i32>
%5 = add nuw nsw <64 x i32> %3, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%6 = add nuw nsw <64 x i32> %5, %4
%7 = lshr <64 x i32> %6, <i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32
1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1,
i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1, i32 1>
%8 = trunc <64 x i32> %7 to <64 x i8>
store <64 x i8> %8, <64 x i8>* undef, align 4
ret void
}
define void @pmaddwd_32_256(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vectorwidth"="256" {
; CHECK-LABEL: pmaddwd_32_256:
; CHECK:
# %bb.0:
; CHECK-NEXT: vmovdqa (%rdi), %ymm0
; CHECK-NEXT: vmovdqa 32(%rdi), %ymm1

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define void @pmaddwd_32_512(<32 x i16>* %APtr, <32 x i16>* %BPtr, <16 x i32>* %CPtr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: pmaddwd_32_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqas <rdi>, %zmm0
    ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqas %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}

define void @psubus_64i8_max_256(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: psubus_64i8_max_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqas <rdi>, %zmm0
    ; CHECK-NEXT: vpmaddwd (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %A = load <32 x i16>, <32 x i16>* %APtr
    %B = load <32 x i16>, <32 x i16>* %BPtr
    %a = sext <32 x i16> %A to <32 x i32>
    %b = sext <32 x i16> %B to <32 x i32>
    %m = mul nsw <32 x i32> %a, %b
    %odd = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 0, i32 2, i32 4, i32 6, i32 8, i32 10, i32 12, i32 14, i32 16, i32 18, i32 20, i32 22, i32 24, i32 26, i32 28, i32 30>
    %even = shufflevector <32 x i32> %m, <32 x i32> undef, <16 x i32> <i32 1, i32 3, i32 5, i32 7, i32 9, i32 11, i32 13, i32 15, i32 17, i32 19, i32 21, i32 23, i32 25, i32 27, i32 29, i32 31>
    %ret = add <16 x i32> %odd, %even
    store <16 x i32> %ret, <16 x i32>* %CPtr
    ret void
}
define void @psubus_64i8_max_512(<64 x i8>* %xptr, <64 x i8>* %yptr, <64 x i8>* %zptr) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: psubus_64i8_max_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT: vmovdqa64 (%rdi), %zmm0
    ; CHECK-NEXT: vpsubusb (%rsi), %zmm0, %zmm0
    ; CHECK-NEXT: vmovdqa64 %zmm0, (%rdx)
    ; CHECK-NEXT: vzeroupper
    ; CHECK-NEXT: retq
    %x = load <64 x i8>, <64 x i8>* %xptr
    %y = load <64 x i8>, <64 x i8>* %yptr
    %cmp = icmp ult <64 x i8> %x, %y
    %max = select <64 x i1> %cmp, <64 x i8> %y, <64 x i8> %x
    %res = sub <64 x i8> %max, %y
    store <64 x i8> %res, <64 x i8>* %zptr
    ret void
}

define i32 @_Z9test_charPcS_i_256(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: _Z9test_charPcS_i_256:
    ; CHECK:       # %bb.0: # %entry
    ; CHECK-NEXT: movl %edx, %eax
    ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
    ; CHECK-NEXT: xorl %ecx, %ecx
    ; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
    ; CHECK-NEXT: vpxor %xmm2, %xmm2, %xmm2
    ; CHECK-NEXT: .p2align 4, 0x90
    ; 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:  vpmovsxmbw 16(%rsi,%rcx), %ymm5
; CHECK-NEXT:  vpmaddwd %ymm3, %ymm5, %ymm3
; CHECK-NEXT:  vpadd %ymmm2, %ymmm3, %ymmm2
; CHECK-NEXT:  vpmovsxmbw (%rsi,%rcx), %ymm3
; CHECK-NEXT:  vpmaddwd %ymm4, %ymm3, %ymm3
; CHECK-NEXT:  vpadd %ymmm1, %ymmm3, %ymmm1
; CHECK-NEXT:  addq $32, %rcx
; CHECK-NEXT:  cmpq %rcx, %rax
; CHECK-NEXT:  jne .LBB8_1
; CHECK-NEXT:  # %bb.2: # %middle.block
; CHECK-NEXT:  vpadd %ymmm0, %ymmm1, %ymmm1
; CHECK-NEXT:  vpadd %ymmm0, %ymmm2, %ymmm0
; CHECK-NEXT:  vextracti128 $1, %ymmm0, %xmm1
; CHECK-NEXT:  vpadd %xmm1, %xmm0, %xmm0
; CHECK-NEXT:  vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
; 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 %12, label %middle.block, label %vector.body

middle.block:
%rdx.shuf1 = shufflevector <32 x i32> %11, <32 x i32> undef, <32 x i32> <i32 16, i32 17, i32 18, i32 19, i32 20, i32 21, i32 22, i32 23, i32 24, i32 25, i32 26, i32 27, i32 28, i32 29, i32 30, i32 31, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx1 = add <32 x i32> %11, %rdx.shuf
%rdx.shuf = shufflevector <32 x i32> %bin.rdx1, <32 x i32> undef, <32 x i32> <i32 8, i32 9, i32 10, i32 11, i32 12, i32 13, i32 14, i32 15, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%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, 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, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx18 = add <32 x i32> %bin.rdx32, %rdx.shuf17
%rdx.shuf19 = shufflevector <32 x i32> %bin.rdx18, <32 x i32> undef, <32 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx20 = add <32 x i32> %bin.rdx18, %rdx.shuf19
%13 = extractelement <32 x i32> %bin.rdx20, i32 0
ret i32 %13

define i32 @_Z9test_charPcS_i_512(i8* nocapture readonly, i8* nocapture readonly, i32) "min-legal-vector-width"="512" {
; CHECK-LABEL: _Z9test_charPcS_i_512:
; CHECK: # %bb.0: # %entry
; CHECK-NEXT: movl %edx, %eax
; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
; CHECK-NEXT: xorl %ecx, %ecx
; CHECK-NEXT: vpxor %xmm1, %xmm1, %xmm1
; CHECK-NEXT: p2align 4, 0x90
; CHECK-NEXT: .LBB9_1: # %vector.body
; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
; CHECK-NEXT: vpmovsxbw (%rdi,%rcx), %zmm2
; CHECK-NEXT: vpmovsxbw (%rsi,%rcx), %zmm3
; CHECK-NEXT: vpmaddwd %zmm2, %zmm3, %zmm2
; CHECK-NEXT: vpaddd %zmm1, %zmm2, %zmm1
; CHECK-NEXT: addq $32, %rcx
; CHECK-NEXT: cmpq %rcx, %rax
; CHECK-NEXT: jne .LBB9_1
; CHECK-NEXT: # %bb.2: # %middle.block
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextract64x4 %zmm0, %zmm1, %zmm1
; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
; CHECK-NEXT: vextracti128 $1, %zmm0, %zmm1
}
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, <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 unde...
@a = global [1024 x i8] zeroinitializer, align 16
@b = global [1024 x i8] zeroinitializer, align 16

define i32 @sad_16i8_256() {
  %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
}

vector.body:

%index = phi i64 [ 0, %entry ], [ %index.next, %vector.body ]
%vec.phi = phi i16 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, <132 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1, i32 -1>
%8 = sub nsw <16 x i32> zeroinitializer, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:
%rdx.shuf = shufflevector <16 x i32> %10, <16 x i32> undef, <16 x i32> <132 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, i32 undef>
%bin.rdx2 = add <16 x i32> %bin.rdx, %rdx.shuf2
%rdx.shuf3 = shufflevector <16 x i32> %bin.rdx2, <16 x i32> undef, <16 x i32> <i32 2, i32 3, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx3 = add <16 x i32> %bin.rdx2, %rdx.shuf3
%rdx.shuf4 = shufflevector <16 x i32> %bin.rdx3, <16 x i32> undef, <16 x i32> <i32 1, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}
define i32 @sad_16i8_512() "min-legal-vector-width"="512" {  
  ; CHECK-LABEL: sad_16i8_512:
  ; CHECK: # %bb.0: # %entry
  ; CHECK-NEXT: vpxor %xmm0, %xmm0, %xmm0
  ; CHECK-NEXT: movq $-1024, %rax # imm = 0xFC00
  ; CHECK-NEXT: .p2align 4, 0x90
  ; CHECK-NEXT: .LBB11_1: # %vector.body
  ; CHECK-NEXT: # =>This Inner Loop Header: Depth=1
  ; CHECK-NEXT: vmovdqu a+1024(%rax), %xmm1
  ; CHECK-NEXT: vpsadbw b+1024(%rax), %xmm1, %xmm1
  ; CHECK-NEXT: vpaddd %zmm0, %zmm1, %zmm0
  ; CHECK-NEXT: addq $4, %rax
  ; CHECK-NEXT: jne .LBB11_1
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>
%8 = sub nsw <16 x i32> zeroinitialize, %6
%9 = select <16 x i1> %7, <16 x i32> %6, <16 x i32> %8
%10 = add nsw <16 x i32> %9, %vec.phi
%index.next = add i64 %index, 4
%11 = icmp eq i64 %index.next, 1024
br i1 %11, label %middle.block, label %vector.body

middle.block:

%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> %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> %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> %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 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef, i32 undef>
%bin.rdx4 = add <16 x i32> %bin.rdx3, %rdx.shuf4
%12 = extractelement <16 x i32> %bin.rdx4, i32 0
ret i32 %12
}

define void @sbto16f32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f32_256:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:    vmovaps %ymm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq

    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: sbto16f32_512:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    vpmovm2d %k1, %zmm0
    ; CHECK-NEXT:    vcvtdq2ps %zmm0, %zmm0
    ; CHECK-NEXT:    vmovaps %zmm0, (%rdi)
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq

    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}

define void @sbto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: sbto16f64_256:
    ; CHECK-NEXT:    vpmovw2m %ymm0, %k0
    ; CHECK-NEXT:    kshiftrw $8, %k0, %k1
    ; CHECK-NEXT:    vpmovm2d %k1, %ymm0
    ; CHECK-NEXT:    vcvtdq2ps %ymm0, %ymm0
    ; CHECK-NEXT:    vmovaps %ymm0, (%rdi)
    ; CHECK-NEXT:    retq

    %mask = icmp slt <16 x i16> %a, zeroinitializer
    %1 = sitofp <16 x i1> %mask to <16 x float>
    store <16 x float> %1, <16 x float>* %res
    ret void
}
define void @sbtol64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: sbtol64_512:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vpmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vpmovaps %zmm1, (%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = sitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define void @ubtol32_256(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="256" {
; CHECK-LABEL: ubtol32_256:
; CHECK:      # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: kshiftrw $8, %k0, %k1
; CHECK-NEXT: vpmovm2d %k1, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpsld $31, %ymm0, %ymm0
; CHECK-NEXT: vcvtdq2ps %ymm0, %ymm0
; CHECK-NEXT: vpmovm2d %k0, %ymm1
; CHECK-NEXT: vpsld $31, %ymm1, %ymm1
; CHECK-NEXT: vcvtdq2ps %ymm1, %ymm1

define void @ubto16f32_512(<16 x i16> %a, <16 x float>* %res) "min-legal-vector-width"="512" {
  ; CHECK-LABEL: ubto16f32_512:
  ; CHECK:     # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: vpmovm2d %k0, %zmm0
  ; CHECK-NEXT: vpsrld $31, %zmm0, %zmm0
  ; CHECK-NEXT: vcvtq2ps %zmm0, %zmm0
  ; CHECK-NEXT: vmovaps %zmm0, (%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
  %1 = uitofp <16 x i1> %mask to <16 x float>
  store <16 x float> %1, <16 x float>* %res
  ret void
}

define void @ubto16f64_256(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="256" {
  ; CHECK-LABEL: ubto16f64_256:
  ; CHECK:     # %bb.0:
  ; CHECK-NEXT: vpmovw2m %ymm0, %k0
  ; CHECK-NEXT: vpmovm2d %k0, %ymm0
  ; CHECK-NEXT: vpsrld $8, %k0, %k1
  ; CHECK-NEXT: vcmovl %k0, %k1
  ; CHECK-NEXT: vpsrld $31, %ymm0, %ymm0
  ; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0
  ; CHECK-NEXT: vcvtq2pd %xmm0, %ymm1
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm0
  ; CHECK-NEXT: vcvtq2pd %xmm0, %ymm0
  ; CHECK-NEXT: vpmovm2d %k0, %ymm2
  ; CHECK-NEXT: vpsrld $31, %ymm2, %ymm2
  ; CHECK-NEXT: vextracti128 $1, %ymm0, %xmm2
  ; CHECK-NEXT: vcvtq2pd %xmm0, %ymm3
  ; CHECK-NEXT: vcvtq2pd %xmm0, %ymm2
  ; CHECK-NEXT: vextracti128 $1, %ymm3, %xmm2
  ; CHECK-NEXT: vcvtq2pd %xmm0, %ymm3
  ; CHECK-NEXT: vpmovaps %ymm2, 32(%rdi)
  ; CHECK-NEXT: vpmovaps %ymm3, (%rdi)
  ; CHECK-NEXT: vmovaps %ymm0, 96(%rdi)
  ; CHECK-NEXT: vmovaps %ymm1, 64(%rdi)
  ; CHECK-NEXT: vzeroupper
  ; CHECK-NEXT: retq
  %mask = icmp slt <16 x i16> %a, zeroinitializer
define void @ubto16f64_512(<16 x i16> %a, <16 x double>* %res) "min-legal-vector-width"="512" {
; CHECK-LABEL: ubto16f64_512:
; CHECK:    # %bb.0:
; CHECK-NEXT: vpmovw2m %ymm0, %k0
; CHECK-NEXT: vpmovm2d %k0, %zmm0
; CHECK-NEXT: vpsld $31, %zmm0, %zmm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm1
; CHECK-NEXT: vextracti64x4 $1, %zmm0, %ymm0
; CHECK-NEXT: vcvtdq2pd %ymm0, %zmm0
; CHECK-NEXT: vmovaps %zmm0, 64(%rdi)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%mask = icmp slt <16 x i16> %a, zeroinitialize
%1 = uitofp <16 x i1> %mask to <16 x double>
store <16 x double> %1, <16 x double>* %res
ret void
}

define <16 x i16> @test_16f32toub_256(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="256" {
; CHECK-LABEL: test_16f32toub_256:
; CHECK:    # %bb.0:
; CHECK-NEXT: vcvttps2dq (%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k0
; CHECK-NEXT: vcvttps2dq 32(%rdi), %ymm1
; CHECK-NEXT: vpslld $31, %ymm1, %ymm1
; CHECK-NEXT: vpmovd2m %ymm1, %k1
; CHECK-NEXT: kunpckbw %k0, %k1, %k1
; CHECK-NEXT: vmovdq16 %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> zeroinitialize
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

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 = fptoui <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define <16 x i16> @test_16f32tosb_512(<16 x float>* %ptr, <16 x i16> %passthru) "min-legal-vector-width"="512" {
    ; CHECK-LABEL: test_16f32tosb_512:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vcvttps2dq (%rdi), %zmm1
    ; CHECK-NEXT:    vpmovd2m %zmm1, %k1
    ; CHECK-NEXT:    vmovdqu16 %ymm0, %ymm0 {%k1} {z}
    ; CHECK-NEXT:    retq
    %a = load <16 x float>, <16 x float>* %ptr
    %mask = fptosi <16 x float> %a to <16 x i1>
    %select = select <16 x i1> %mask, <16 x i16> %passthru, <16 x i16> zeroinitializer
    ret <16 x i16> %select
}

define void @mul256(<64 x i8>* %a, <64 x i8>* %b, <64 x i8>* %c) "min-legal-vector-width"="256" {
    ; CHECK-AVX512-LABEL: mul256:
    ; CHECK-AVX512:       # %bb.0:
    ; CHECK-AVX512-NEXT:    vmovdqa (%rdi), %ymm0
    ; CHECK-AVX512-NEXT:    vmovdqa 32(%rdi), %ymm1
    ; CHECK-AVX512-NEXT:    vmovdqa (%rsi), %ymm2
    ; CHECK-AVX512-NEXT:    vmovdqa 32(%rsi), %ymm3

; CHECK-VBMI-NEXT:  vpmullw %ymm3, %ymm1, %ymm1
; CHECK-VBMI-NEXT:  vmovdqa \{[.*#+}\} ymm3 = [0,2,4,6,8,10,12,14,32,34,36,38,40,42,44,46,16,18,20,22,24,26,28,30,38,50,52,54,56,58,60,62]
; CHECK-VBMI-NEXT:  vpermt2b %ymm4, %ymm3, %ymm1
; CHECK-VBMI-NEXT:  vpmullw %ymm4, %ymm5, %ymm4
; CHECK-VBMI-NEXT:  vpunpckhlw \{[.*#+}\} ymm4 = ymm0[0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23]
; 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
}

define 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, %zmm0
; CHECK-AVX512-NEXT:  vpmullw %zmm3, %zmm1
; CHECK-AVX512-NEXT:  vpunpckhbw \{[.*#+}\} zmm2 = zmm1[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,41,42,42,43,43,44,44,44,45,45,46,46,47,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vpunpckhbw \{[.*#+}\} zmm3 = zmm0[8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,41,42,42,43,43,44,44,44,45,45,46,46,47,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-AVX512-NEXT:  vunpckhbw \{[.*#+}\} zmm1 = zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,41,42,42,43,43,44,44,44,45,45,46,46,47,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vunpckhbw \{[.*#+}\} zmm0 = zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,41,42,42,43,43,44,44,44,45,45,46,46,47,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-AVX512-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; 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[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,43,43,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpunpckhbw {{.*#+}} zmm3 =
zmm0[8,8,9,9,10,10,11,11,12,12,13,13,14,14,15,15,24,24,25,25,26,26,27,27,28,28,29,29,30,30,31,31,40,40,41,41,42,43,43,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpmullw %zmm2, %zmm3, %zmm2
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm1 =
zmm1[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpunpcklbw {{.*#+}} zmm0 =
zmm0[0,0,1,1,2,2,3,3,4,4,5,5,6,6,7,7,16,16,17,17,18,18,19,19,20,20,21,21,22,22,23,23,32,32,33,33,34,34,35,35,36,36,37,37,38,38,39,39,40,40,41,41,42,42,43,43,44,44,45,45,46,46,47,47,56,56,57,57,58,58,59,59,60,60,61,61,62,62,63,63]
; CHECK-VBMI-NEXT:  vpmullw %zmm1, %zmm0, %zmm0
; CHECK-VBMI-NEXT:  vmovdqa64 {{.*#+}} zmm1 =
[0,2,4,6,8,10,12,14,64,66,68,70,72,74,76,78,81,16,18,20,22,24,26,28,30,80,82,84,86,88,90,92,94,32,34,36,38,40,42,44,46,96,98,100,102,104,106,108,110,48,50,52,54,56,58,60,62,112,114,116,118,120,122,124,126]
; CHECK-VBMI-NEXT:  vpermil2b %zmm2, %zmm0, %zmm1
; CHECK-VBMI-NEXT:  vmovdqa64 %zmm1, (%rdx)
; CHECK-VBMI-NEXT:  vzeroupper
; CHECK-VBMI-NEXT:  retq

%e = load <64 x i8>, <64 x i8>* %a
%e = load <64 x i8>, <64 x i8>* %b
%e = 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
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:   vinserti128 $1, %xmm1, %ymm0, %ymm0
  ; CHECK-NEXT:   vpmovqd %ymm2, %xmm1
  ; CHECK-NEXT:   vpmovqd %ymm3, %xmm2
  ; CHECK-NEXT:   vinserti128 $1, %xmm2, %ymm1, %ymm1
  ; CHECK-NEXT:   retq
  %a = load <16 x i64>, <16 x i64>* %x
  %b = trunc <16 x i64> %a to <16 x i32>
  ret <16 x i32> %b
}

define <16 x i8> @trunc_v16i64_v16i8(<16 x i64>* %x) nounwind "min-legal-vector-width"="256" {
  ; CHECK-LABEL: trunc_v16i64_v16i8:
  ; CHECK:       # %bb.0:
  ; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
  ; CHECK-NEXT:   vmovdqa 32(%rdi), %ymm1
  ; CHECK-NEXT:   vmovdqa 64(%rdi), %ymm2
  ; CHECK-NEXT:   vmovdqa 96(%rdi), %ymm3
  ; CHECK-NEXT:   vpmovqb %ymm3, %xmm3
  ; CHECK-NEXT:   vpmovqd %ymm2, %xmm2
  ; CHECK-NEXT:   vpmovq %ymm1, %xmm1
  ; CHECK-NEXT:   vpmovq %ymm0, %xmm0
  ; CHECK-NEXT:   vpunpckldq {{.*#+}} xmm2 = xmm2[0],xmm3[0],xmm2[1],xmm3[1]
  ; CHECK-NEXT:   vpmovq %ymm1, %xmm1
  ; CHECK-NEXT:   vpmovq %ymm0, %xmm0
  ; CHECK-NEXT:   vpunpckldq {{.*#+}} 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:

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), %ymm1
; CHECK-NEXT:  vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT:  vpunpcklqdq {{.*#*}} %ymm0 = %ymm0[0],%ymm1[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:  vpsrlq $48, 32(%rdi), %ymm1
; CHECK-NEXT:  vpsrlq $48, (%rdi), %ymm2
; CHECK-NEXT:  vpunpcklqdq {{.*#*}} %ymm0 = %ymm0[0],%ymm1[0],%ymm0[1],%ymm1[1]
; CHECK-NEXT:  vzeroupper
; CHECK-NEXT:  retq
%a = load <8 x i64>, <8 x i64>* %x
%b = trunc <8 x i64> %a to <8 x i16>
ret <8 x i16> %b
}

define <8 x i32> @trunc_v8i64_v8i32_zeroes(<8 x i64>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v8i64_v8i32_zeroes:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vpsrlq 48, 32(%rdi), %ymm1
; CHECK-NEXT:  vpsrlq 48, (%rdi), %ymm2
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30]
; CHECK-NEXT:  vperm2w %ymm1, %ymm2, %ymm0
; CHECK-NEXT:  retq
%a = load <8 x i64>, <8 x i64>* %x
%b = lshr <8 x i64> %a, <i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48, i64 48>
%c = trunc <8 x i64> %b to <8 x i32>
ret <8 x i32> %c
}

define <16 x i16> @trunc_v16i32_v16i16_zeroes(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-NEXT:  vperm2b 32(%rdi), %ymm1, %ymm0
; CHECK-NEXT:  retq
%a = load <16 x i32>, <16 x i32>* %x
%b = lshr <16 x i32> %a, <i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16, i32 16>
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i16> @trunc_v32i16_v32i8_zeroes(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:  retq
; CHECK-VBMI-LABEL:  trunc_v32i16_v32i8_zeroes:
; CHECK-VBMI:  # %bb.0:
; CHECK-VBMI-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-VBMI-NEXT:  vpermq {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; 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, 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:
define <16 x i16> @trunc_v16i32_v16i16_sign(<16 x i32>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_v16i32_v16i16_sign:
; CHECK:       # %bb.0:
; CHECK-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-NEXT:  vmovdqa {{.*#+}} ymm0 = [1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31]
; CHECK-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-NEXT:  retq
%a = load <16 x i32>, <16 x i32>* %x
%b = ashr <16 x i32> %a, <16 x i32>* %x
%c = trunc <16 x i32> %b to <16 x i16>
ret <16 x i16> %c
}

define <32 x i8> @trunc_v32i16_v32i8_sign(<32 x i16>* %x) nounwind "min-legal-vector-width"="256" {
; CHECK-AVX512-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-AVX512:       # %bb.0:
; CHECK-AVX512-NEXT:  vpsraw $8, 32(%rdi), %ymm0
; CHECK-AVX512-NEXT:  vpacksswb %ymm0, %ymm1, %ymm0
; CHECK-AVX512-NEXT:  vpermq {{.*#+}} ymm0 = ymm0[0,2,1,3]
; CHECK-AVX512-NEXT:  retq
; CHECK-VMBMI-LABEL: trunc_v32i16_v32i8_sign:
; CHECK-VMBMI:       # %bb.0:
; CHECK-VMBMI-NEXT:  vmovdqa (%rdi), %ymm1
; CHECK-VMBMI-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-VMBMI-NEXT:  vpermib 32(%rdi), %ymm1, %ymm0
; CHECK-VMBMI-NEXT:  retq
%a = load <32 x i16>, <32 x i16>* %x
%b = ashr <32 x i16> %a, <32 x i16>* %x
%c = trunc <32 x i16> %b to <32 x i8>
ret <32 x i8> %c
define void @zext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
    CHECK-LABEL: zext_v16i8_v16i64:
    CHECK:    # %bb.0:
        CHECK-NEXT:       vpmovzxvw {{.*#+}} 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
        CHECK-NEXT:       vextracti128 $1, %ymm1, %xmm1
        CHECK-NEXT:       vpshufd {{.*#+}} xmm2 = xmm1[2,3,0,1]
        CHECK-NEXT:       vpshufd {{.*#+}} xmm3 = xmm1[2,3,0,1]
        CHECK-NEXT:       vpmovzxwq {{.*#+}} ymm3 =
            xmm3[0],zero,zero,xmm3[1],zero,zero,xmm3[2],zero,zero,xmm3[3],zero,zero
        CHECK-NEXT:       vpmovzxwq {{.*#+}} ymm1 =
            xmm1[0],zero,zero,xmm1[1],zero,zero,xmm1[2],zero,zero,xmm1[3],zero,zero
        CHECK-NEXT:       vpmovzxwbq {{.*#+}} ymm0 =
            xmm0[0],zero,zero,xmm0[1],zero,zero,xmm0[2],zero,zero,xmm0[3],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: %a = zext <16 x i8> %x to <16 x i64>
    CHECK-NEXT: store <16 x i64> %a, <16 x i64>* %y
    ret void
}

define void @sext_v16i8_v16i64(<16 x i8> %x, <16 x i64>* %y) nounwind "min-legal-vector-width"="256" {
    CHECK-LABEL: sext_v16i8_v16i64:
    CHECK:    # %bb.0:
        CHECK-NEXT:       vpmovzxwbw {{.*#+}} ymm0 =
            xmm0[0],%ymm0
        CHECK-NEXT:       vpshufd {{.*#+}} xmm1 = xmm0[2,3,0,1]
        CHECK-NEXT:       vpmovzxwq %ymm1, %xmm1
        CHECK-NEXT:       vextracti128 $1, %ymm0, %xmm2
        CHECK-NEXT:       vpshufd {{.*#+}} xmm3 = xmm2[2,3,0,1]
        CHECK-NEXT:       vpmovzxwq %ymm3, %ymm3
        CHECK-NEXT:       vpmovsxwq %ymm0, %ymm0
        CHECK-NEXT:       vpmovsxwq %ymm1, %ymm1
        CHECK-NEXT:       vpmovsxwq %ymm2, %ymm2
        CHECK-NEXT:       vpmovsxwq %ymm3, %ymm3
        CHECK-NEXT:       vmovdqa %ymm2, 64(%rdi)
        CHECK-NEXT:       vmovdqa %ymm0, (%rdi)
        CHECK-NEXT:       vmovdqa %ymm3, 96(%rdi)
        CHECK-NEXT:       vmovdqa %ymm1, 32(%rdi)
        CHECK-NEXT:       vzeroupper
    CHECK-NEXT: retq
}
define void @vselect_split_v8i16_setcc(<8 x i16> %s, <8 x i16> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v8i16_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:    vpcmpeqw %xmm1, %xmm0, %k1
    ; CHECK-NEXT:    kshiftrb $4, %k1, %k2
    ; CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 {%k1}
    ; 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 void @vselect_split_v8i32_setcc(<8 x i32> %s, <8 x i32> %t, <8 x i64>* %p, <8 x i64>* %q, <8 x i64>* %r) "min-legal-vector-width"="256" {
    ; CHECK-LABEL: vselect_split_v8i32_setcc:
    ; CHECK:       # %bb.0:
    ; CHECK-NEXT:    vmovdqa (%rsi), %ymm2
    ; CHECK-NEXT:    vmovdqa 32(%rsi), %ymm3
    ; CHECK-NEXT:    vpcmpeqd %ymm1, %ymm0, %k1
    ; CHECK-NEXT:    kshiftrb $4, %k1, %k2
    ; CHECK-NEXT:    vmovdqa64 32(%rdi), %ymm3 {%k2}
    ; CHECK-NEXT:    vmovdqa64 (%rdi), %ymm2 {%k1}
    ; CHECK-NEXT:    vzeroupper
    ; CHECK-NEXT:    retq
    %x = load <8 x i64>, <8 x i64>* %p
    %y = load <8 x i64>, <8 x i64>* %q
    %a = icmp eq <8 x i32> %s, %t
    %b = select <8 x i1> %a, <8 x i64> %x, <8 x i64> %y
    store <8 x i64> %b, <8 x i64>* %r
    ret void
}
define void @vselect_split_v16i8_setcc(<16 x i8> %s, <16 x i8> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i8_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqb %xmm1, %xmm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i8> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define void @vselect_split_v16i16_setcc(<16 x i16> %s, <16 x i16> %t, <16 x i32>* %p, <16 x i32>* %q, <16 x i32>* %r) "min-legal-vector-width"="256" {
; CHECK-LABEL: vselect_split_v16i16_setcc:
; CHECK: # %bb.0:
; CHECK-NEXT: vmovdqa (%rsi), %ymm2
; CHECK-NEXT: vmovdqa 32(%rsi), %ymm3
; CHECK-NEXT: vpcmpeqw %ymm1, %ymm0, %k1
; CHECK-NEXT: kshiftrw $8, %k1, %k2
; CHECK-NEXT: vmovdqa32 32(%rdi), %ymm3 {%k2}
; CHECK-NEXT: vmovdqa32 (%rdi), %ymm2 {%k1}
; CHECK-NEXT: vmovdqa %ymm2, (%rdx)
; CHECK-NEXT: vmovdqa %ymm3, 32(%rdx)
; CHECK-NEXT: vzeroupper
; CHECK-NEXT: retq
%x = load <16 x i32>, <16 x i32>* %p
%y = load <16 x i32>, <16 x i32>* %q
%a = icmp eq <16 x i16> %s, %t
%b = select <16 x i1> %a, <16 x i32> %x, <16 x i32> %y
store <16 x i32> %b, <16 x i32>* %r
ret void
}

define <16 x i8> @trunc_packus_v16i32_v16i8(<16 x i32>* %p) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8:

define void @trunc_packus_v16i32_v16i8_store(<16 x i32>* %p, <16 x i8>* %q) "min-legal-vector-width"="256" {
; CHECK-LABEL: trunc_packus_v16i32_v16i8_store:
; CHECK:       # %bb.0:
; CHECK-NEXT:   vmovdqa (%rdi), %ymm0
; CHECK-NEXT:   vpackusdw 32(%rdi), %ymm0, %ymm0
; 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 sgt <16 x i32> %a, <16 x i32> %c
    %e = select <16 x i1> %b, <16 x i32> %a, <16 x i32> %c
    %f = trunc <16 x i32> %e to <16 x i8>
    store <16 x i8> %f, <16 x i8>* %q
    ret void
}
; 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 = 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 = 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 $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 = 0xFFEFFFFF
; 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:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $22, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $8, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-72057594037927937, %rax # imm = 0xFEFFFFFFFFFFFFFF
; CHECK-NEXT:  kmovq %rax, %k2
; CHECK-NEXT:  kandq %k2, %k0, %k0
; CHECK-NEXT:  kshiftrd $25, %k1, %k2
; CHECK-NEXT:  kshiftlq $63, %k2, %k2
; CHECK-NEXT:  kshiftrq $7, %k2, %k2
; CHECK-NEXT:  korq %k2, %k0, %k0
; CHECK-NEXT:  movabsq $-144115188075855873, %rax # imm = 0xFDFFFFFFFFFFFFFF
; 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 = 0xFBFFFFFFFFFFFFFF
; 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 = 0xF7FFFFFFFFFFFFFF
; 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 = 0xDFFFFFFFFFFFFFF
; 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:  korq %k2, %k0, %k0
entry:
  %a = load <64 x i8>, <64 x i8>* %x
  %b = icmp eq <64 x i8> %a, zeroinitializer
  %shuf = shufflevector <64 x i1> %b, undef, <64 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 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 32, %i32 33, %i32 34, %i32 35, %i32 36, %i32 37, %i32 38, %i32 39, %i32 40, %i32 41, %i32 42, %i32 43, %i32 44, %i32 45, %i32 46, %i32 47, %i32 48, %i32 49, %i32 50, %i32 51, %i32 52, %i32 53, %i32 54, %i32 55, %i32 56, %i32 57, %i32 58, %i32 59, %i32 60, %i32 61, %i32 62>
call void @llvm.masked.store.v64i8.p0v64i8(<64 x i8> %a, <64 x i8>* %y, i32 %i32 1, <64 x i1> %shuf)
ret void
}
declare void @llvm.masked.store.v64i8.p0v64i8(<64 x i8>, <64 x i8>*, i32, <64 x i1>)
define void @cmp_v8i64_sext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: cmp_v8i64_sext:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
 ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
 ; CHECK-NEXT:  vpcmpgtq 32(%rdi), %ymm1, %ymm1
 ; CHECK-NEXT:  vpcmpgtq (%rdi), %ymm0, %ymm0
 ; CHECK-NEXT:  vmovdqa %ymm0, (%rdx)
 ; CHECK-NEXT:  vmovdqa %ymm1, 32(%rdx)
 ; CHECK-NEXT:  vzeroupper
 ; CHECK-NEXT:  retq
 %x = load <8 x i64>, <8 x i64>* %xptr
 %y = load <8 x i64>, <8 x i64>* %yptr
 %cmp = icmp slt <8 x i64> %x, %y
 %ext = sext <8 x i1> %cmp to <8 x i64>
 store <8 x i64> %ext, <8 x i64>* %zptr
 ret void
}

define void @cmp_v8i64_zext(<8 x i64>* %xptr, <8 x i64>* %yptr, <8 x i64>* %zptr) "min-legal-vector-width"="256" {
 ; CHECK-LABEL: cmp_v8i64_zext:
 ; CHECK:       # %bb.0:
 ; CHECK-NEXT:  vmovdqa (%rsi), %ymm0
 ; CHECK-NEXT:  vmovdqa 32(%rsi), %ymm1
 ; CHECK-NEXT:  vpcmpgtq 32(%rdi), %ymm1, %ymm1
 ; CHECK-NEXT:  vpcmpgtq (%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
 ; CHECK-NEXT:  vpmovzxbw {{.*#+}} ymm1 =
define <32 x i8> @var_rotate_v32i8(<32 x i8> %a, <32 x i8> %b) nounwind "min-legal-vector-width"="256" {
  %bb = 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, %b
  %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-LABEL: splatvar_rotate_v32i8:
; CHECK:       ; %bb.0:
; CHECK-NEXT:  vpbroadcastb %xmm1, %xmm1
; CHECK-NEXT:  vpand {{.*}}(%rip), %xmm1, %xmm1
; CHECK-NEXT:  vpmovzxqb {{.*#+}} xmm2 =
            xmm1[0],zero,zero,zero,zero,zero,zero,xmm1[1],zero,zero,zero,zero,zero,zero,zero
; CHECK-NEXT:  vpsllw %xmm2, %ymm0, %ymm3
; CHECK-NEXT:  vmovdqa {{.*#+}} xmm4 = [8,8,8,8,8,8,8,8,8,8,8,8,8,8,8,8]
; CHECK-NEXT:  vpsubb %xmm1, %xmm4, %xmm1
; CHECK-NEXT:  vpcmpeqd %xmm4, %xmm4, %xmm4
; CHECK-NEXT:  vpsllw %ymm0, %ymm0, %ymm2
; CHECK-NEXT:  vpbroadcastb %ymm2, %ymm2
; CHECK-NEXT:  vphadd b <32 x i8> %shl, %splat8
; CHECK-NEXT:  vpternlogq $236, %ymm5, %ymm2, %ymm0
; CHECK-NEXT:  retq
%shl = shl <32 x i8> %a, %splat
%lshr = lshr <32 x i8> %a, %splat8
%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:  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:  vpsllw %ymm2, %ymm0, %ymm0
; CHECK-AVX512-NEXT:  vpbroadcastb %ymm0, %ymm1
; CHECK-AVX512-NEXT:  vpaddb %ymm2, %ymm2, %ymm2
; CHECK-AVX512-NEXT:  vpbroadcastb %ymm2, %ymm3, %ymm1, %ymm1

}
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; RUN: llc -march=hexagon < %s
; REQUIRES: asserts

; The two loads based on %struct.0, loading two different data types
; cause LSR to assume type "void" for the memory type. This would then
; cause an assert in isLegalAddressingMode. Make sure we no longer crash.

target triple = "hexagon"

%struct.0 = type { i8*, i8, %union.anon.0 }
%union.anon.0 = type { i8* }

define hidden fastcc void @fred() unnamed_addr #0 {
  entry:
    br i1 undef, label %while.end, label %while.body.lr.ph
  
  while.body.lr.ph:                   ; preds = %entry
    br label %while.body
  
  while.body:                        ; preds = %exit.2, %while.body.lr.ph
    %lsr.iv = phi %struct.0* [%cgep22, %exit.2 ], [ undef, %while.body.lr.ph ]
    switch i32 undef, label %exit [
      i32 1, label %sw.bb.i
      i32 2, label %sw.bb3.i
    ]
  
  sw.bb.i:                          ; preds = %while.body
    unreachable
  
  sw.bb3.i:                         ; preds = %while.body
    unreachable
  
  exit:                             ; preds = %while.body
    switch i32 undef, label %exit.2 [
      i32 1, label %sw.bb.i17
      i32 2, label %sw.bb3.i20
    ]
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:  .cfi_offset %rbx, -16
; 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:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; 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:  movaps %xmm0, (%rsp) # 16-byte Spill
; CHECK-NEXT:  movaps {{\[-0-9\]+}}(%r{{\[sb\]}}p), %xmm1 # 16-byte Reload
; CHECK-NEXT:  callq __subtf3
; CHECK-NEXT:  testl %ebx, %ebx
; CHECK-NEXT:  .cfi_offset %rbx, -16
; CHECK-NEXT:  movl %eax, %ebx
; CHECK-NEXT:  movaps %xmm1, {{\[-0-9\]+}}(%r{{\[sb\]}}p) # 16-byte Spill
open source used in crosswork platform infrastructure

cw-infra-4.1.0-dockerimages-clean

; 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), %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 0xL00000000000000000000000000000000, %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>
ret <16 x double> %res
}

; This one is small enough to satisfy isSimple, but still illegally large.
define <4 x double> @test_sitofp_fixed_shortish(<4 x i64> %in) {
; CHECK-LABEL: test_sitofp_fixed_shortish:

; CHECK-DAG: scvtf.2d v0, v0
; CHECK-DAG: scvtf.2d v1, v1

; CHECK: ret
%flt = sitofp <4 x i64> %in to <4 x double>
%res = fdiv <4 x double> %flt, <double 64.0, double 64.0, double 64.0, double 64.0>
ret <4 x double> %res
}
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 = "i386-unknown-linux-gnu"

; Check that for i8 type, the maximum legal offset is 31.
; Also check that an constant used as value to be stored rather than
; pointer in a store instruction is hoisted.
; CHECK: foo_i8
; CHECK-DAG: %[[C1:const[0-9]?!]] = bitcast i32 805874720 to i32
; CHECK-DAG: %[[C2:const[0-9]?!]] = bitcast i32 805874688 to i32
; CHECK-DAG: %[[C3:const[0-9]?!]] = bitcast i32 805873720 to i32
; CHECK-DAG: %[[C4:const[0-9]?!]] = bitcast i32 805873688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i8*
; CHECK-NEXT: %1 = load volatile i8, i8* %0
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i8*
; CHECK-NEXT: %3 = load volatile i8, i8* %2
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i8*
; CHECK-NEXT: %5 = load volatile i8, i8* %4
; CHECK-NEXT: %6 = inttoptr i32 %[[C1]] to i8*
; CHECK-NEXT: %7 = load volatile i8, i8* %6
; CHECK-NEXT: %8 = inttoptr i32 %[[M3]] to i8*
; CHECK-NEXT: %9 = load volatile i8, i8* %8
; CHECK-NEXT: %10 = inttoptr i32 %[[C4]] to i8*
; CHECK-NEXT: store i8 %9, i8* %10
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-DAG: %[[C1:const[0-9]??]] = bitcast i32 805874752 to i32
; CHECK-DAG: %[[C2:const[0-9]??]] = bitcast i32 805874688 to i32
; CHECK: %0 = inttoptr i32 %[[C2]] to i16*
; CHECK-NEXT: %1 = load volatile i16, i16* %0, align 2
; CHECK-NEXT: %[[M1:const_mat[0-9]??]] = add i32 %[[C2]], 4
; CHECK-NEXT: %2 = inttoptr i32 %[[M1]] to i16*
; CHECK-NEXT: %3 = load volatile i16, i16* %2, align 2
; CHECK-NEXT: %[[M2:const_mat[0-9]??]] = add i32 %[[C2]], 32
; CHECK-NEXT: %4 = inttoptr i32 %[[M2]] to i16*
; CHECK-NEXT: %5 = load volatile i16, i16* %4, align 2
; CHECK-NEXT: %[[M3:const_mat[0-9]??]] = add i32 %[[C2]], 62
; CHECK-NEXT: %6 = inttoptr i32 %[[M3]] to i16*
; CHECK-NEXT: %7 = load volatile i16, i16* %6, align 2
; CHECK-NEXT: %[[M4:const_mat[0-9]??]] = add i32 %[[C1]], 22
; CHECK-NEXT: %10 = inttoptr i32 %[[M4]] to i16*
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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This should promote arguments when the caller/callee have compatible function attributes.

target triple = "x86_64-unknown-linux-gnu"

define internal fastcall void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
  ...
  NOT_TUNIT_NPM-LABEL: define {
    [[@*+*]]}@callee_avx512_legal512_prefer512_call_avx512_legal512_prefer512
  NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture noreturn nonnull readonly 64 dereferenceable(64) [[ARG:*]], <8 x i64>* nocapture noreturn nonnull readonly 64 dereferenceable(64) [[ARG1:*]])
  NOT_TUNIT_NPM-NEXT: bb:
  NOT_TUNIT_NPM-NEXT: [[TMP:*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
  NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
  NOT_TUNIT_NPM-NEXT: ret void

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer512(<8 x i64>* %arg) #0 {
  %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 {
  %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 {
  %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 {
  %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_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #1 {
    NOT_TUNIT_NPM-LABEL: define {
        @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    } NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
    NOT_TUNIT_NPM-NEXT: bb:
        NOT_TUNIT_NPM-NEXT: [TMP:%.*] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
        NOT_TUNIT_NPM-NEXT: store <8 x i64> [TMP], <8 x i64>* [[ARG]], align 64
        NOT_TUNIT_NPM-NEXT: ret void
    }
    IS__TUNIT_NPM-LABEL: define {
        @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256
    } IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* [TMP0:%.*])
    IS__TUNIT_NPM-NEXT: bb:
        IS__TUNIT_NPM-NEXT: [ARG1_PRIV:%.*] = alloca <8 x i64>, align 64
        IS__TUNIT_NPM-NEXT: store <8 x i64> [TMP0], <8 x i64>* [ARG1_PRIV], align 64
        IS__TUNIT_NPM-NEXT: [TMP:%.*] = load <8 x i64>, <8 x i64>* [ARG1_PRIV], align 64
        IS__TUNIT_NPM-NEXT: store <8 x i64> [TMP], <8 x i64>* [[ARG]], align 64
        IS__TUNIT_NPM-NEXT: ret void
    }
    bb:
        %tmp = load <8 x i64>, <8 x i64>* %arg1
        store <8 x i64> %tmp, <8 x i64>* %arg1
        ret void
    }
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #1 {
    IS__TUNIT_OPM-LABEL: define {
        @avx512_legal512_prefer256_call_avx512_legal512_prefer256
    } IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
    IS__TUNIT_OPM-NEXT: bb:
        IS__TUNIT_OPM-NEXT: [TMP:%.*] = alloca <8 x i64>, align 32
        IS__TUNIT_OPM-NEXT: [TMP2:%.*] = alloca <8 x i64>, align 32
        IS__TUNIT_OPM-NEXT: [TMP3:%.*] = bitcast <8 x i64>* [TMP] to i8*
        IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
        IS__TUNIT_OPM-NEXT: call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [TMP2], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [TMP])
        IS__TUNIT_OPM-NEXT: 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 {

; NOT_TUNIT_NPM-LABEL: define
{"[^@]+}" @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:

; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define
{"[^@]+}" @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:

; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {

; IS__TUNIT_OPM-LABEL: define {{"[^@]+"}} @avx512_legal512_prefer512_call_avx512_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:

; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void

bb:

%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {

; ; NOT_TUNIT_NPM-LABEL: define
; {[@@+]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
; [ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [ARG1:%.*])
; NOT_TUNIT_NPM-NEXT: bb:
; ; NOT_TUNIT_NPM-NEXT:  [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [ARG1]], align 64
; NOT_TUNIT_NPM-NEXT:  store <8 x i64> [[TMP]], <8 x i64>* [ARG], align 64
; NOT_TUNIT_NPM-NEXT:  ret void
;
; ; IS__TUNIT_NPM-LABEL: define
; {[@@+]}@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
; [ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; ; IS__TUNIT_NPM-NEXT:  [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP0]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT:  ret void
;
;
bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg) #1 {
  ;
  ; IS__TUNIT_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_OPM-NEXT: bb:
    ; IS__TUNIT_OPM-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_OPM-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nonnull readonly align 64
dereferenceable(64) [[TMP]])
  ; IS__TUNIT_OPM-NEXT: [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_OPM-NEXT: ret void
  ;
  ; IS__TUNIT_NPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS__TUNIT_NPM-NEXT: bb:
    ; IS__TUNIT_NPM-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_NPM-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
    ; IS__TUNIT_NPM-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
    ; IS__TUNIT_NPM-NEXT: [[TMP0:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
    ; IS__TUNIT_NPM-NEXT: call fastcc void
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* noalias nocapture nonfree
nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nonnull readonly align 64
dereferenceable(64) [[TMP0]])
  ; IS__TUNIT_NPM-NEXT: [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__TUNIT_NPM-NEXT: ret void
  ;
  ; IS__CGSCC_OPM-LABEL: define {{[^@]+}} @avx512_legal512_prefer256_call_avx512_legal512_prefer512
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
  ; IS__CGSCC_OPM-NEXT: bb:
    ; IS__CGSCC_OPM-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
    ; IS__CGSCC_OPM-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
    ; IS__CGSCC_OPM-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
    ; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
@callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP3]])

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

%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)

}; 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 {

}
define void @avx512_legal256_prefer256_call_avx512_legal512_prefer256(<8 x i64>* %arg) #2 { 
  %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 { 
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  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,
define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg1) #2 {
  ; NOT_TUNIT_NPM-LABEL: define
  ({{[^@]+}}) @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
  NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
  [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
  NOT_TUNIT_NPM-NEXT: bb:
  ; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
  NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
  NOT_TUNIT_NPM-NEXT: ret void
  ;
  ; IS_TUNIT_NPM-LABEL: define
  ({{[^@]+}}) @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; IS_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
  [[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
  ; IS_TUNIT_NPM-NEXT: bb:
  ; IS_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
  ; IS_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
  ; IS_TUNIT_NPM-NEXT: ret void
  ;
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %arg) #1 {
  ;
  ; IS_TUNIT_OPM-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; IS_TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS_TUNIT_OPM-NEXT: bb:
  ; IS_TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
  ; IS_TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
  ; IS_TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS_TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS_TUNIT_OPM-NEXT: call fastcc void
  @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocapture nonnull
writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nonnull readonly align 64
dereferenceable(64) [[TMP]])
  ; IS_TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS_TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS_TUNIT_OPM-NEXT: ret void
  ;
  ; IS_TUNIT_NPM-LABEL: define ({{[^@]+}}) @avx512_legal512_prefer256_call_avx512_legal256_prefer256
  ; IS_TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
  ; IS_TUNIT_NPM-NEXT: bb:
  ; IS_TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocaapture nofree nononnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nononnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__TUNIT_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT:  ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocaapture nofree nononnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nononnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocaapture nofree nononnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nononnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocaapture nofree nononnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nononnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocaapture nofree nononnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nononnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocaapture nofree nononnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nononnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  bb:
; IS__CGSCC_OPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocaapture nofree nononnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nononnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_OPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocaapture nofree nononnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nononnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* noalias nocaapture nofree nononnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocaapture nofree nononnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void

; bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void
}

; This should promote
define internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
;
; NOT_TUNIT_NPM-LABEL: define
{[[@]+]} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; NOT_TUNIT_NPM-SAME: (<8 x i64>* nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1]], align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {[[@]+]} @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64)
[[ARG:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg) #4 {
;
; IS__TUNIT_OPM-LABEL: define {[[@]+]} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP]], <8 x i64>* [[ARG]], align 64
; IS__TUNIT_OPM-NEXT: ret void

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 {
;
; IS__TUNIT_OPM-LABEL: define {[[@]+]} @avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_OPM-NEXT: bb:
; IS__TUNIT_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_OPM-NEXT: call fastcc void
@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>)* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]

; IS__TUNIT_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_OPM-NEXT: ret void

; IS__TUNIT_NPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__TUNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__TUNIT_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__TUNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__TUNIT_NPM-NEXT: [[TMP0:%.*]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
; IS__TUNIT_NPM-NEXT: call fastcc void

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>)* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64> [[TMP0]]

; IS__TUNIT_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__TUNIT_NPM-NEXT: ret void

; IS__CGSCC_OPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_OPM-NEXT: bb:
; IS__CGSCC_OPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_OPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_OPM-NEXT: call fastcc void

@callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>)* nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]]

; IS__CGSCC_OPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT: ret void

; IS__CGSCC_NPM-LABEL: define {{[^@]+}}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT: [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT: [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1]])

; IS__CGSCC_NPM-NEXT: [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #4 {
;
; NOT_TUNIT_NPM-LABEL: define {
; NOT_TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG1:%.*]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[ARG1:%.*]])
; NOT_TUNIT_NPM-NEXT: bb:
; NOT_TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; NOT_TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; NOT_TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; NOT_TUNIT_NPM-NEXT: ret void
;
; IS__TUNIT_NPM-LABEL: define {
; IS__TUNIT_NPM-SAME: (<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[ARG1_PRIV:%.*]], <8 x i64> [[TMP0:%.*]])
; IS__TUNIT_NPM-NEXT: bb:
; IS__TUNIT_NPM-NEXT: [[ARG1_PRIV:%.*]] = alloca <8 x i64>, align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: [[TMP0]] = load <8 x i64>, <8 x i64>* [[ARG1_PRIV]], align 64
; IS__TUNIT_NPM-NEXT: store <8 x i64> [[TMP0]], <8 x i64>* [[ARG1]], align 64
; IS__TUNIT_NPM-NEXT: ret void

bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}
define void @avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %arg) #3 {
  ;
  ; IS__UNIT_OPM-LABEL: define [{[^@]+}] @avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; IS__UNIT_OPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.++]])
  ; IS__UNIT_OPM-NEXT: bb:
  ; IS__UNIT_OPM-NEXT: [[TMP:.]] = alloc <8 x i64>, align 32
  ; IS__UNIT_OPM-NEXT: [[TMP2:.]] = alloc <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 nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__UNIT_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP2]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP]])
  ; 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-LABEL: define [{[^@]+}] @avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; IS__UNIT_NPM-SAME: (<8 x i64>* nocapture writeonly [[ARG:%.++]])
  ; IS__UNIT_NPM-NEXT: bb:
  ; IS__UNIT_NPM-NEXT: [[TMP:.]] = alloc <8 x i64>, align 32
  ; IS__UNIT_NPM-NEXT: [[TMP2:.]] = alloc <8 x i64>, align 32
  ; IS__UNIT_NPM-NEXT: [[TMP3:.]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__UNIT_NPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 32
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__UNIT_NPM-NEXT: [[TMP0:.]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
  ; IS__UNIT_NPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* noalias nocapture nofree nonnull
writeonly align 64 dereferenceable(64) [[TMP0]], <8 x i64>* [[TMP0]])
  ; IS__UNIT_NPM-NEXT: [[TMP4:.]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__UNIT_NPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
  ; IS__UNIT_NPM-NEXT: ret void

  ; IS__CGSCC_OPM-LABEL: define [{[^@]+}] @avx2_legal512_prefer256_call_avx2_legal256_prefer256
  ; IS__CGSCC_OPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.++]])
  ; IS__CGSCC_OPM-NEXT: bb:
  ; IS__CGSCC_OPM-NEXT: [[TMP:.]] = alloc <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP2:.]] = alloc <8 x i64>, align 32
  ; IS__CGSCC_OPM-NEXT: [[TMP3:.]] = bitcast <8 x i64>* [[TMP]] to i8*
  ; IS__CGSCC_OPM-NEXT: call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64
dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
  ; IS__CGSCC_OPM-NEXT: [[TMP0:.]] = load <8 x i64>, <8 x i64>* [[TMP]], align 64
  ; IS__CGSCC_OPM-NEXT: call fastcc void
@callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* nocapture nofree nonnull writeonly
align 64 dereferenceable(64) [[TMP0]], <8 x i64>* nocapture nofree nonnull readonly align 64 dereferenceable(64)
[[TMP]])
  ; IS__CGSCC_OPM-NEXT: [[TMP4:.]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
  ; IS__CGSCC_OPM-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_OPM-NEXT:  ret void
;
; IS__CGSCC_NPM-LABEL: define [ [^@]+ ] @avx2_legal512_prefer256_call_avx2_legal512_prefer256
; IS__CGSCC_NPM-SAME: (<8 x i64>* nocapture nonnull writeonly align 2 dereferenceable(64) [[ARG:%.*]])
; IS__CGSCC_NPM-NEXT: bb:
; IS__CGSCC_NPM-NEXT:  [[TMP:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP2:%.*]] = alloca <8 x i64>, align 32
; IS__CGSCC_NPM-NEXT:  [[TMP3:%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; IS__CGSCC_NPM-NEXT:  call void @llvm.memset.p0i8.i64(i8* nocapture nonnull writeonly align 64 dereferenceable(64) [[TMP3]], i8 0, i64 32, i1 false)
; IS__CGSCC_NPM-NEXT:  call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(<8 x i64>* noalias nocapture nofree nonnull writeonly align 64 dereferenceable(64) [[TMP2]], <8 x i64>* noalias nocapture nofree nonnull readonly align 64 dereferenceable(64) [[TMP]])
; IS__CGSCC_NPM-NEXT:  [[TMP4:%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 64
; IS__CGSCC_NPM-NEXT:  store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; IS__CGSCC_NPM-NEXT:  ret void
;
bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_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

; 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 }
; 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)
; 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
; 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>, <8 x i64>* %arg1
  ; 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)
%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>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
  %tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
  store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

define void @avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %arg) #0 {
  bb:
  %tmp = alloca <8 x i64>, align 32
  %tmp2 = alloca <8 x i64>, align 32
  %tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx512_legal512_prefer512_call_avx512_legal512_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
    %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 {
    call fastcc void @callee_avx512_legal512_prefer256_call_avx512_legal512_prefer512(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #0 {
        %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>* %arg, align 2
    ret void
}

}; CHECK-NEXT: bb:
%tmp = load <8 x i64>, <8 x i64>* %arg1
store <8 x i64> %tmp, <8 x i64>* %arg
ret void

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store <8 x i64> %tmp, <8 x i64>* %arg
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%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

}; CHECK-NEXT: bb:
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%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

}; CHECK-NEXT: bb:
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%tmp = alloca <8 x i64>, align 32
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%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

}; CHECK-NEXT: bb:
bb:
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

}; CHECK-NEXT: bb:
bb:
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

}; CHECK-NEXT: bb:
define 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
    ...
}

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
    ...
}

; 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:%.*]])
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 internal fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(<8 x i64>* %arg, <8 x i64>* readonly %arg1) #3 {
  bb:
  %tmp = load <8 x i64>, <8 x i64>* %arg1
  store <8 x i64> %tmp, <8 x i64>* %arg
  ret void
}

; This should promote

store <8 x i64> %tmp, <8 x i64>* %arg
ret void
}

define void @avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* %arg) #4 {
; CHECK-LABEL: define {[^@]+}@avx2_legal256_prefer256_call_avx2_legal512_prefer256
; CHECK-SAME: (8 x i64)* [[ARG:%.*]])
; CHECK-NEXT: bb:
; CHECK-NEXT: [[TMP:.%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP2:.%.*]] = alloca <8 x i64>, align 32
; CHECK-NEXT: [[TMP3:.%.*]] = bitcast <8 x i64>* [[TMP]] to i8*
; CHECK-NEXT: call void @llvm.memset.p0i8.i64(i8* align 32 [[TMP3]], i8 0, i64 32, i1 false)
; CHECK-NEXT: [[TMP_VAL:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP]]
; CHECK-NEXT: call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)*
[[TMP2]], <8 x i64> [[TMP_VAL]])
; CHECK-NEXT: [[TMP4:.%.*]] = load <8 x i64>, <8 x i64>* [[TMP2]], align 32
; CHECK-NEXT: store <8 x i64> [[TMP4]], <8 x i64>* [[ARG]], align 2
; CHECK-NEXT: ret void

bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal256_prefer256_call_avx2_legal512_prefer256(8 x i64)* %tmp2, <8 x i64>*
%tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; This should promote
define internal fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal512_prefer256(8 x i64)*
%arg, <8 x i64>* readonly %arg1) #4 {
; CHECK-LABEL: define {[^@]+}@callee_avx2_legal512_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_legal512_prefer256_call_avx2_legal256_prefer256(8 x i64)* %arg) #3 {
; CHECK-LABEL: define {[^@]+}@avx2_legal512_prefer256_call_avx2_legal256_prefer256


bb:
%tmp = alloca <8 x i64>, align 32
%tmp2 = alloca <8 x i64>, align 32
%tmp3 = bitcast <8 x i64>* %tmp to i8*
call void @llvm.memset.p0i8.i64(i8* align 32 %tmp3, i8 0, i64 32, i1 false)
call fastcc void @callee_avx2_legal512_prefer256_call_avx2_legal256_prefer256(<8 x i64>* %tmp2, <8 x i64>* %tmp)
%tmp4 = load <8 x i64>, <8 x i64>* %tmp2, align 32
store <8 x i64> %tmp4, <8 x i64>* %arg, align 2
ret void

; If the arguments are scalar, its ok to promote.
define internal i32 @scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256(i32* %X, i32* %Y) #2 {
    ; CHECK-LABEL: define
    {{[^@]+}}@scalar_callee_avx512_legal256_prefer256_call_avx512_legal512_prefer256
    ; CHECK-SAME: (i32 [[X_VAL:%.*]], i32 [[Y_VAL:%.*]])
    ; CHECK-NEXT:   [[C:%.*]] = add i32 [[X_VAL]], [[Y_VAL]]
    ; CHECK-NEXT:   ret i32 [[C]]
    %A = load i32, i32* %X
    %B = load i32, i32* %Y
    %C = add i32 %A, %B
    ret i32 %C
}

define i32 @scalar_avx512_legal256_prefer256(i32* %B) #2 {
    ; CHECK-LABEL: define
    {{[^@]+}}@scalar_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_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:  ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_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
ret i32 %C
}

define i32 @scalar_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32* %B) #2 {
; CHECK-LABEL: define 
{{[^@]+}}@scalar_avx512_legal512_prefer256_call_avx512_legal512_prefer256
; CHECK-SAME: (i32* [[B:.]*]])
; CHECK-NEXT:  [[A:.]*] = alloca i32
; CHECK-NEXT:  store i32 1, i32* [[A]]
; CHECK-NEXT:  [[A_VAL:.]*] = load i32, i32* [[A]]
; CHECK-NEXT:  [[B_VAL:.]*] = load i32, i32* [[B]]
; CHECK-NEXT:  [[C:.]*] = call i32
@scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_prefer256(i32 [[A_VAL]], i32 [[B_VAL]])
; CHECK-NEXT:  ret i32 [[C]]
;
%A = alloca i32
store i32 1, i32* %A
%C = call i32 @scalar_callee_avx512_legal512_prefer256_call_avx512_legal512_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" }

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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 = { argnemoonly nounwind }

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Developed by:

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; NOTE: Assertions have been autogenerated by utils/update_analyze_test_checks.py
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx2 | FileCheck %s --check-prefixes=CHECK,VEC256,AVX
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,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=CHECK,VEC256,SKX256
; RUN: opt < %s -cost-model -analyze -mtriple=x86_64-apple-macosx10.8.0 -mattr=+avx512vl,+avx512bw,+avx512dq,-prefer-256-bit | FileCheck %s --check-prefixes=CHECK,VEC512,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> unde
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 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 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; 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 3 for instruction: %D = zext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
<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>
; 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

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 4 for instruction: %E = sext <16 x i16> undef to <16 x i32>
}
define void @sext512() "min-legal-vector-width"="512" {
  ; AVX-LABEL: 'sext512'
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
  ; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
  
  ; 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
}

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; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX-NEXT: Cost Model: Found an estimated cost of 4 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL256-LABEL: 'sext512'
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; AVX512VL512-LABEL: 'sext512'
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %F = sext <32 x i8> undef to <32 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void

; SKX256-LABEL: 'sext512'
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = sext <8 x i8> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %B = sext <8 x i16> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %C = sext <8 x i32> undef to <8 x i64>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %D = sext <16 x i8> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %E = sext <16 x i16> undef to <16 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %F = sext <32 x i8> undef to <32 x i16>
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; 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

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 <16 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX256-LABEL: 'trunc256'
; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 6 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX256-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
; SKX512-LABEL: 'trunc256'
; SKX512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %A = trunc <8 x i64> undef to <8 x i32>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %B = trunc <8 x i64> undef to <8 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %C = trunc <8 x i64> undef to <8 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %D = trunc <16 x i32> undef to <16 x i16>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %E = trunc <16 x i32> undef to <16 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %F = trunc <32 x i16> undef to <32 x i8>
; SKX512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret void
;
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 to <2 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i64 = zext 4 x i1 to <4 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V8i64 = zext 8 x i1 to <8 x i64>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = zext 2 x i1 to <2 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = zext 4 x i1 to <4 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i32 = zext 8 x i1 to <8 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V16i32 = zext 16 x i1 to <16 x i32>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = zext 2 x i1 to <2 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = zext 4 x i1 to <4 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = zext 8 x i1 to <8 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = zext 16 x i1 to <16 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V32i16 = zext 32 x i1 to <32 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i16 = zext 64 x i1 to <64 x i16>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V32i8 = zext 32 x i1 to <32 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V64i8 = zext 64 x i1 to <64 x i8>
    ; AVX-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = zext 2 x i1 to <2 x i64>  
    ret i32 undef
    
    ; AVX512VL256-LABEL: 'zext256_vXi1'
    ; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = zext 2 x i1 to <2 x i64>  
}
to <2 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = zext <4 x i1> undef to <4 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V8i64 = zext <8 x i1> undef to <8 x i64>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef 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>
; 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: %V2i32 = zext <2 x i1> undef to <2 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: %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 5 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = zext <2 x i1> undef to <2 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = zext <4 x i1> undef to <4 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i32 = zext <8 x i1> undef to <8 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V16i32 = zext <16 x i1> undef to <16 x i32>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i16 = zext <2 x i1> undef to <2 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i16 = zext <4 x i1> undef to <4 x i16>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i16 = zext <8 x i1> undef to <8 x
; 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 2 for instruction: %V4i32 = sext <4 x i1> undef to <4 x
unde to <16 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i16 = sext <32 x i1> unde to <32 x i16>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 unde to i8

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = sext <2 x i1> unde to <2 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = sext <4 x i1> unde to <4 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = sext <8 x i1> unde to <8 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = sext <16 x i1> unde to <16 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = sext <32 x i1> unde to <32 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = sext <64 x i1> unde to <64 x i8>

; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 unde

;

; SKX256-LABEL: 'sext256_vXi1'

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I64 = sext i1 unde to i64

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i64 = sext <2 x i1> unde to <2 x i64>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i64 = sext <4 x i1> unde to <4 x i64>

; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i64 = sext <8 x i1> unde to <8 x i64>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I32 = sext i1 unde to i32

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i32 = sext <2 x i1> unde to <2 x i32>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i32 = sext <4 x i1> unde to <4 x i32>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i32 = sext <8 x i1> unde to <8 x i32>

; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i32 = sext <16 x i1> unde to <16 x i32>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I16 = sext i1 unde to i16

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i16 = sext <2 x i1> unde to <2 x i16>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V4i16 = sext <4 x i1> unde to <4 x i16>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V8i16 = sext <8 x i1> unde to <8 x i16>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V16i16 = sext <16 x i1> unde to <16 x i16>

; SKX256-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = sext <32 x i1> unde to <32 x i16>

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %I8 = sext i1 unde to i8

; SKX256-NEXT: Cost Model: Found an estimated cost of 1 for instruction: %V2i8 = sext <2 x i1> unde to <2 x
Open Source Used In Crosswork Platform Infrastructure cw-infra-4.1.0-dockerimages-clean
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

    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 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 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>
; 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> 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-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>
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 4 for instruction: %V32i32 = trunc <32 x i32> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 8 for instruction: %V64i32 = trunc <64 x i32> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i16 = trunc <2 x i16> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i16 = trunc <4 x i16> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i16 = trunc <8 x i16> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i16 = trunc <16 x i16> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 3 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 7 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 15 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; AVX512VL512-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX256-LABEL: 'trunc_vXi1'
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i64 = trunc <2 x i64> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i64 = trunc <4 x i64> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 9 for instruction: %V8i64 = trunc <8 x i64> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V16i64 = trunc <16 x i64> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 23 for instruction: %V32i64 = trunc <32 x i64> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 47 for instruction: %V64i64 = trunc <64 x i64> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i32 = trunc <2 x i32> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i32 = trunc <4 x i32> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 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 5 for instruction: %V32i16 = trunc <32 x i16> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i16 = trunc <64 x i16> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V2i8 = trunc <2 x i8> undef to <2 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V4i8 = trunc <4 x i8> undef to <4 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V8i8 = trunc <8 x i8> undef to <8 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 2 for instruction: %V16i8 = trunc <16 x i8> undef to <16 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 5 for instruction: %V32i8 = trunc <32 x i8> undef to <32 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 11 for instruction: %V64i8 = trunc <64 x i8> undef to <64 x i1>
; SKX256-NEXT: Cost Model: Found an estimated cost of 0 for instruction: ret i32 undef
;
; SKX512-LABEL: 'trunc_vXi1'
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1.1102 jcmtturner-dnsutils 2.0.0

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1.1103 python-setuptools 44.1.1

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1.1104 javassist 3.25.0-GA

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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ExceptionsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/AnnotationsAttribute.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/util/proxy/MethodFilter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/DuplicateMemberException.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Expr.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ClassFile.java
jar/javassist/tools/reflect/CannotInvokeException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ConstantAttribute.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/SymbolTable.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/MultiType.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/Keyword.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/runtime/Desc.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CtNewWrappedConstructor.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/ast/CastExpr.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/compiler/CompileError.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/analysis/FramePrinter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/CannotCompileException.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/convert/TransformAfter.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/builder/Analyzer.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0-ga-sources-3-jar/javassist/bytecode/ExceptionTable.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/IntegerMemberValue.java
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* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/LongMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/FloatMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/CharMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/ShortMemberValue.java
* /opt/cola/permits/1135869399_1613618193.6/0/javassist-3-25-0 ga-sources-3-jar/javassist/bytecode/annotation/Annotation.java
1.1105 sockjs 3.0.0

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  jar/io/vertx/ext/sockjs/impl/WebSocketTransport.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
  jar/io/vertx/ext/sockjs/impl/XhrTransport.java
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  jar/io/vertx/ext/sockjs/impl/Session.java
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  jar/io/vertx/ext/sockjs/impl/JsonCodec.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
  jar/io/vertx/ext/sockjs/impl/EventBusBridgeHook.java
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
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  jar/io/vertx/ext/sockjs/impl/BaseTransport.java
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* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/ext-sockjs-
  js/sock_jsserver.js
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-
  jar/io/vertx/groovy/ext/sockjs/SockJSServer.groovy
* /opt/cola/permits/1217182149_1635515105.41/0/vertx-sockjs-3-0-0-dev-preview1-sources-jar/ext-sockjs-
  js/sock_jssocket.js
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Gocheck - A rich testing framework for Go

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* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/GrpcHttp2ConnectionHandler.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/InternalHandlerSettings.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/GracefulCloseCommand.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/NettyHandleSettings.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/InternalNettyServerBuilder.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/ClientTransportLifecycleManager.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/InternalNettyChannelBuilder.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/HandlerSettings.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/GrpcHttp2OutboundHeaders.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/ForcefulCloseCommand.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/AbstractHttp2Headers.java

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jar/io/grpc/netty/KeepAliveEnforcer.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/MaxConnectionIdleManager.java
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* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/NegotiationType.java
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* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/CancelClientStreamCommand.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/NettyServerBuilder.java
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* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/Utils.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/NettyReadableBuffer.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/CreateStreamCommand.java

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* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/NettyChannelProvider.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/NettyWritableBuffer.java
* /opt/cola/permits/1003166924_1606873952.73/0/grpc-netty-1-9-1-sources-jar/io/grpc/netty/package-info.java

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1.1121 google-api-go-client 0.34.0

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package api
import (  
  "bytes"
  "io/ioutil"
  "os"
  "path/filepath"
  "regexp"
  "testing"
)

// Files in this package use a BSD-style license.
var sentinel = regexp.MustCompile(`(//|#) Copyright \d\d\d\d (Google LLC|The Go Authors)\(\)\*\( All rights
reserved\)\*\n
(//|#) Use of this source code is governed by a BSD-style
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`
)

const prefix = "// Copyright"

// A few files have to be skipped.
var skip = map[string]bool{
  "tools.go": true, // This file requires another comment above the license.
  "internal/third_party/uritemplates/uritemplates.go": true, // This file is licensed to an individual.
  "internal/third_party/uritemplates/uritemplates_test.go": true, // This file is licensed to an individual.
}

// This test validates that all go files in the repo start with an appropriate license.
func TestLicense(t *testing.T) {
  err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {
    if skip[path] { return nil }
    src, err := ioutil.ReadFile(path)
    if err != nil { return nil }
    // Verify that the license is matched.
    if !sentinel.Match(src) { t.Errorf("%v: license header not present", path)

```
// Also check it is at the top of .go files (but not .sh files, because they must have a shebang first).
if filepath.Ext(path) == ".go" && !bytes.HasPrefix(src, []byte(prefix))) {
    t.Errorf("%v: license header not at the top", path)
} return nil
}
if err != nil {
    t.Fatal(err)
}

1.1122 prefixedio 0.0.0-20190213213902-5733675afdf51
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1.1123 grafana-loki 1.6.2-0.20201026154740-6978ee5d7387
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import (  "io/ioutil"  "strings"  "time"
)

type License struct {  // The unique identifier of the license  LicenseID string `json:"license_id"`  
  // The customer ID associated with the license  CustomerID string `json:"customer_id"`
  // If set, an identifier that should be used to lock the license to a particular site, cluster, etc.  InstallationID string `json:"installation_id"`  
}
// The time at which the license was issued
IssueTime time.Time `json:"issue_time"

// The time at which the license starts being valid
StartTime time.Time `json:"start_time"

// The time after which the license expires
ExpirationTime time.Time `json:"expiration_time"

// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"
}

type LicenseReply struct {
Valid bool
License *License
Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
var reply LicenseReply
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
return nil, err
} else {
return &reply, nil
}
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
  r := op.c.newRequest("GET", "/v1/operator/license")
  r.params.Set("signed", "1")
  r.setQueryOptions(q)
  _, resp, err := requireOK(op.c.doRequest(r))
  if err != nil {


return "", err
}
def resp.Body.Close()

data, err := ioutil.ReadAll(resp.Body)
if err != nil {
    return "", err
}

return string(data), nil

// LicenseReset will reset the license to the built-in one if it is still valid.
// If the built-in license is invalid, the current license stays active.
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }

def resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}

func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }

def resp.Body.Close()

    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }

    return &reply, nil
}
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tomb - support for clean goroutine termination in Go.

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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
}

type LicenseProps struct {  
  Name string `json:"name,omitempty"`  
  URL  string `json:"url,omitempty"`  
}

func (l *License) UnmarshalJSON(data []byte) error {  
  if err := json.Unmarshal(data, &l.LicenseProps); err != nil {  
    return err
  }
  return json.Unmarshal(data, &l.VendorExtensible)
}

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 swag.ConcatJSON(b1, b2), nil
}

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*/
package minio
import (
"bytes"
"context"
"encoding/xml"
"fmt"
"net/http"
"net/url"
"github.com/minio/minio-go/v7/pkg/s3utils"
)
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
type objectLegalHold struct {
XMLNS string
`xml:"xmlns,attr,omitempty"`
XMLName xml.Name
`xml:"LegalHold"`
Status LegalHoldStatus `xml:"Status,omitempty"`
}
// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
VersionID string
Status *LegalHoldStatus
}
// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
VersionID string
}
// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string
const (
// LegalHoldEnabled indicates legal hold is enabled
LegalHoldEnabled LegalHoldStatus = "ON"
// LegalHoldDisabled indicates legal hold is disabled
LegalHoldDisabled LegalHoldStatus = "OFF"
)
func (r LegalHoldStatus) String() string {
return string(r)
}

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// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }
    if !status.IsValid() {
        return nil, fmt.Errorf("invalid legal hold status `\%v`", status)
    }
    legalHold := &objectLegalHold{
        Status: *status,
    }
    return legalHold, nil
}

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")
    if opts.VersionID != "" {
    }

    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }

    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }

    // PutObjectLegalHold will set the object legal hold
    // in the object metadata.
    urlValues.Set("Tagging", fmt.Sprintf("k2=v2;\n%v", lhData))

    if err := c.s3.PutObjectWithContext(ctx, bucketName, objectName, lhData, objectMetadata, urlValues); err != nil {
        return err
    }

    return nil
}
// Execute PUT Object Legal Hold.
deferr closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", ")")
    if opts.VersionID != ")") {
    }
    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentBody:      bytes.NewReader(lhData),
        contentLength:    int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
        contentSHA256Hex: sum256Hex(lhData),
    })
defer closeResponse(resp)
if err != nil {
    return nil, err
}
if resp != nil {
    if resp.StatusCode != http.StatusOK {
        return nil, httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
lh := &objectLegalHold{}
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
    return nil, err
}

return &lh.Status, nil

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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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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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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lib/erl/src/Makefile.am

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For lib/py/compat/win32/stdint.h

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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java
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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/core/PreparedStatementCreator.java
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jar/org/springframework/jdbc/datasource/DataSource.java
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jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java
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jar/org/springframework/jdbc/object/SqlQuery.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/support/incrementer/Db2LuwMaxValueIncrementer.java
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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java
The classes in this package make JDBC easier to use and reduce the likelihood of common errors. In particular, they:

- Simplify error handling, avoiding the need for try/catch/finally blocks in application code.
- Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
- Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.

This package and related packages are discussed in Chapter 9 of Expert One-On-One J2EE Design and Development by Rod Johnson (Wrox, 2002).

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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/datasource/LazyConnectionDataSourceProxy.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/support/KeyHolder.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/support/SQLExceptionTranslator.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/datasource/ResultSetExtractor.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/datasource/JdbcTemplate.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/object/RdbmsOperation.java

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

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jar/org/springframework/support/xml/XmlResultProvider.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/core/BatchPreparedStatementSetter.java
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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/SQLErrorException.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/datasource/lookup/InfinidatDataSourceLookup.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-
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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java

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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java
* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java
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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1.jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
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 */

/**
 * Implement this interface when parameters need to be customized based
 * on the connection. We might need to do this to make use of proprietary
 * features, available only with a specific Connection type.
 *
 * @author Rod Johnson
 * @author Thomas Risberg
 * @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
 */
/**
 * Create a Map of input parameters, keyed by name.
 * @param con a JDBC connection. This is useful (and the purpose of this interface)
 * if we need to do something RDBMS-specific with a proprietary Connection
 * implementation class. This class conceals such proprietary details. However,
 * it is best to avoid using such proprietary RDBMS features if possible.
 * @return a Map of input parameters, keyed by name (never { @code null })
 * @throws SQLException if an SQLException is encountered setting
 * parameter values (that is, there's no need to catch SQLException)
 */

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* /opt/cola/permits/1135872729_1613620771.19/0/spring-jdbc-5-2-12-release-sources-1-jar/org/springframework/jdbc/init/ScriptStatementFailedException.java
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*/
/**
* Strategy interface for translating between [SQLException SQLExceptions]
* and Spring's data access strategy-agnostic [DataAccessException]
* hierarchy.
*
* <p>Implementations can be generic (for example, using
* [java.sql.SQLException#getSQLState() SQLState] codes for JDBC) or wholly
* proprietary (for example, using Oracle error codes) for greater precision.
*
* @author Rod Johnson
* @author Juergen Hoeller
* @see org.springframework.dao.DataAccessException
*/

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1.1142 json-simple 1.1.1

1.1143 yamux 0.0.0-20181012175058-2f1d1f20f75d

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1.1146 py3-cachecontrol 0.12.6-r1

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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/CachingModel.java
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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/interceptor/caching/MetadataCachingInterceptor.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/CacheAttribute.java

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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
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  jar/org/springmodules/cache/provider/jboss/JbossCacheCachingModel.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
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  jar/org/springmodules/cache/provider/InvalidCacheModelException.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
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jar/org/springmodules/cache/regex/Regex.java
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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
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  jar/org/springmodules/cache/config/CommonsAttributesParser.java
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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/interceptor/NameMatchCacheModelSource.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/interceptor/MetadataCacheAttributeSource.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/interceptor/caching/NullObject.java
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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/interceptor/flush/FlushingModelSourceAdvisor.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/interceptor/caching/CachingModelSourceAdvisor.java

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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/config/gigaspaces/GigaSpacesNamespacesHandler.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/provider/gigaspaces/GigaSpacesCachingModel.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/provider/gigaspaces/GigaSpacesFacade.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/config/gigaspaces/GigaSpacesModelParser.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-jar/org/springmodules/cache/config/gigaspaces/GigaSpacesFacadeParser.java

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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
  jar/org/springmodules/cache/config/ehcache/EhCacheFacadeParser.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
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* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
  jar/org/springmodules/cache/config/oscache/OsCacheFacadeParser.java
* /opt/cola/permits/1136662207_1613850846.16/0/spring-modules-cache-0-8a-sources-2-
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1.1154 hdrhistogram 2.1.12

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Manifest-Version: 1.0
Bnd-LastModified: 1575980548657
Build-Jdk: 1.8.0_232
Built-By: gil
Bundle-Description: HdrHistogram supports the recording and analyzing sampled data value counts across a configurable integer value range with configurable value precision within the range. Value precision is expressed as the number of significant digits in the value recording, and provides control over value quantization behavior across the value range and the subsequent value resolution at any given level.
Bundle-License: http://creativecommons.org/publicdomain/zero/1.0/, https://opensource.org/licenses/BSD-2-Clause
Bundle-ManifestVersion: 2
Bundle-Name: HdrHistogram
Bundle-SymbolicName: org.hdrhistogram.HdrHistogram
Bundle-Version: 2.1.12
Created-By: Apache Maven Bundle Plugin
Export-Package: org.HdrHistogram;version="2.1.12",org.HdrHistogram.packagearray;version="2.1.12"
Implementation-Title: HdrHistogram
Implementation-Vendor-Id: org.hdrhistogram
Implementation-Version: 2.1.12
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title: HdrHistogram
Specification-Version: 2.1.12
Tool: Bnd-2.3.0.201405100607

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1.1155 error_prone_annotations 2.4.0

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* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2-jar/com/google/errorprone/annotations/NoAllocation.java

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* /opt/cola/permits/1199767181_1630583089.73/0/error-prone-annotations-2-4-0-sources-2.jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
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1.1156 go-runtime 1.16.8

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1.1161 isorelax 20090621

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/*
 * @(#)Id: IslandSchemaReader.java,v 1.4 2001/11/01 00:11:45 kkawa Exp $
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  jar/org/iso_relax/dispatcher/IslandSchemaReader.java
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/*
* @(#)$Id: IgnoredSchema.java,v 1.5 2003/05/30 23:46:32 kkawa Exp $
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/*
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/*
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* @(#)Id: SchemaProvider.java,v 1.6 2003/05/30 23:46:32 kkawa Exp $  

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* @(#)Id: ElementDecl.java,v 1.3 2001/11/01 00:11:45 kkawa Exp $  

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1.1162 go-runtime 1.5

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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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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
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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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1.1172 kubernetes-klog 0.4.0

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1.1178 googleapis-common-protos 0.0.3

1.1179 jakarta-ws-rs-api 2.1.6

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* https://github.com/eclipse-ee4j/jaxrs-api

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1.1186 lua-cjson 2.1.0

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* /opt/cola/permits/1148544998_1617703650.05/0/spring-aop-5-3-5-sources-jar/org/springframework/aop/framework/ReflectiveMethodInvocation.java
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1.1189 prometheus-node-exporter 1.0.0-rc.0.0.20200428091818-01054558c289

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# update-license

This is a small tool that updates the license header for Uber's open source Golang files.

## Usage

```
golang update-license go_files...
golang```

## Further Work

* Support more licenses by name (MIT, Apache 2.0, etc), file path, url (http GET)
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* Support more languages than go (cover go, java, js, py to start, along with LICENSE, LICENSE.txt)
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* github.com/BurntSushi/toml - https://github.com/BurntSushi/toml

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* golang.org/x/mod/module - https://github.com/golang/mod

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* golang.org/x/tools/go/analysis - https://github.com/golang/tools

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1.1190 kubernetes-api 0.17.12
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1.1191 go-testing-interface 1.0.0

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1.1192 go-runewidth 0.0.10

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1.1194 ehcache-common 3.8.1

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1.1196 jackson-datatype-jdk8 2.10.5
1.1196.1 Available under license:
No license file was found, but licenses were detected in source scan.

Manifest-Version: 1.0
Bnd-LastModified: 1595301005506
Build-Jdk: 1.8.0_162
Built-By: tatu
Bundle-Description: Add-on module for Jackson (http://jackson.codehaus.org) to support JDK 8 data types.
Bundle-DocURL: https://github.com/FasterXML/jackson-modules-java8/jackson-datatype-jdk8
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson datatype: jdk8
Bundle-SymbolicName: com.fasterxml.jackson.datatype.jackson.datatype-jdk8
Bundle-Vendor: FasterXML
Bundle-Version: 2.10.5
Created-By: Apache Maven Bundle Plugin
Export-Package: com.fasterxml.jackson.datatype.jdk8;version="2.10.5";usage="com.fasterxml.jackson.core,com.fasterxml.jackson.core.io,com.fasterxml.jackson.databind"
1.1197 libjpeg 6b

1.1197.1 Notifications :
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1.1197.2 Available under license :
The Independent JPEG Group's JPEG software
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README for release 6b of 27-Mar-1998
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This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge’ Weijers, and other members of the Independent JPEG Group.

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

DOCUMENTATION ROADMAP
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This file contains the following sections:

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

Other documentation files in the distribution are:

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

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

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

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

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

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

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

The emphasis in designing this software has been on achieving portability and flexibility, while also making it fast enough to be useful. In particular, the software is not intended to be read as a tutorial on JPEG. (See the REFERENCES section for introductory material.) Rather, it is intended to be reliable, portable, industrial-strength code. We do not claim to have achieved that goal in every aspect of the software, but we strive for it.
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The Unix configuration script "configure" was produced with GNU Autoconf. It is copyright by the Free Software Foundation but is freely distributable. The same holds for its supporting scripts (config.guess, config.sub, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

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

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

We are required to state that
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REFERENCES
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We highly recommend reading one or more of these references before trying to
understand the innards of the JPEG software.

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

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


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

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

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

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

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

The TIFF 6.0 file format specification can be obtained by FTP from ftp://ftp.sgi.com/graphics/tiff/TIFF6.ps.gz. The JPEG incorporation scheme found in the TIFF 6.0 spec of 3-June-92 has a number of serious problems. IJG does not recommend use of the TIFF 6.0 design (TIFF Compression tag 6).

Instead, we recommend the JPEG design proposed by TIFF Technical Note #2 (Compression tag 7). Copies of this Note can be obtained from ftp.sgi.com or from ftp://ftp.uu.net/graphics/jpeg/. It is expected that the next revision of the TIFF spec will replace the 6.0 JPEG design with the Note's design.

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

ARCHIVE LOCATIONS

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

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

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

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

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

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

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

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

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

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

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

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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1.1203 spring-binding 2.5.1.RELEASE

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* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert/service/StaticConversionExecutor.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert(converters/StringToClass.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert/ConversionExecutor.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert(converters/TwoWayConverter.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert(converters/StringToShort.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert(converters/ObjectToCollection.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert(converters/StringToInteger.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert(converters/StringToDouble.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert(converters/ObjectToArray.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert(converters/StringToLong.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
jar/org/springframework/binding/convert(converters/StringToLocale.java
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* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-jar/org/springframework/binding/mapping/impl/DefaultMappingResults.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-jar/org/springframework/binding/mapping/convert/converters/InvalidFormatException.java

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  jar/org/springframework/binding/expression/package-info.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
  jar/org/springframework/binding/expression/support/LiteralExpression.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
  jar/org/springframework/binding/expression/el/package-info.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
  jar/org/springframework/binding/convert/service/package-info.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
  jar/org/springframework/binding/convert/service/SpringBindingConverterAdapter.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
  jar/org/springframework/binding/message/DefaultMessageContext.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
  jar/org/springframework/binding/message/MessageResolver.java
* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
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  jar/org/springframework/binding/message/package-info.java
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  jar/org/springframework/binding/expression/beanwrapper/BeanWrapperExpression.java
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* /opt/cola/permits/1136703912_1613864669.04/0/spring-binding-2-5-1-release-sources-1-
  jar/org/springframework/binding/mapping/results/AbstractMappingResult.java
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1.1208 urllib3 1.26.2

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# Contributions to the urllib3 project

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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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* georgemarshall <https://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 <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 <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 <abacababadabacaba@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 <jessa@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 <paliviv@gmail.com>
* History list to Retry object.
* HTTPResponse contains the last Retry object.

* Nate Prewitt <nate.prewitt@gmail.com>
* Ensure timeouts are not booleans and greater than zero.
* Fixed infinite loop in `stream` when amt=None.
* Added length_remaining to determine remaining data to be read.
* Added enforce_content_length to raise exception when incorrect content-length received.

* Seth Michael Larson <sethmichaellarson@protonmail.com>
* Created selectors backport that supports PEP 475.

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

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

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

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

* Tuukka Mustonen <tuukka.mustonen@gmail.com>
* Add counter for status_forcelist retries.
* Erik Rose <erik@mozilla.com>
  * Bugfix to pyopenssl vendoring

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

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

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

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

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

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

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

* Chris Wilcox <git@crwilcox.com>
  * Improve contribution guide
  * Add ``HTTPResponse.geturl`` method to provide ``urllib2.urlopen().geturl()`` behavior

* Bruce Merry <https://www.brucemerry.org.za>
  * Fix leaking exceptions when system calls are interrupted with zero timeout

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

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

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

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

* James Meickle <https://permadeath.com/>
  * Improve handling of Retry-After header
* Chris Jerdonek <chris.jerdonek@gmail.com>
  * Remove a spurious TypeError from the exception chain inside HTTPConnectionPool._make_request(), also for BaseExceptions.

* 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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1.1209 x-oauth2 0.0.0-20210514164344-f6687ab2804c

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1.1215 go-httpheader 0.2.1

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1.1216 javax.jws 3.1.2.2

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* /opt/cola/permits/1170796055_1622715419.9/0/jose4j-0-7-7-sources-jar/org/jose4j/jwe/kdf/ConcatKeyDerivationFunctionFactory.java

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* /opt/cola/permits/1170796055_1622715419.9/0/jose4j-0-7-7-sources-jar/org/jose4j/jwk/SimpleJwkFilter.java

1.1220 toml 0.3.1

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1.1223 go-testing-interface 1.0.4

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1.1225 cython 0.29.24

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1.1231 jetty-util 9.4.24.v20191120

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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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* java.sun.security.ssl

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http://openjdk.java.net/legal/gplv2+ce.html

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

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org.apache.taglibs:taglibs-standard-spec
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org.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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import: ../../../../fossene/db/schema/thing.yml
fields:
  site: string
  author: root

1.1235 netty 4.1.45.Final

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* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
  jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
  jar/org/springframework/scheduling/commonj/DelegatingWork.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
  jar/org/springframework/cache/transaction/AbstractTransactionSupportingCacheManager.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
  jar/org/springframework/scheduling/quartz/JobMethodInvocationFailedException.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
  jar/org/springframework/mail/MailParseException.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
  jar/org/springframework/scheduling/quartz/DelegatingJob.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
  jar/org/springframework/mail/MailAuthenticationException.java

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  jar/org/springframework/cache/ehcache/EhCacheCache.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
  jar/org/springframework/cache/jcache/JCacheCacheManager.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
  jar/org/springframework/mail/javamail/MimeMessageHelper.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-
jar/org/springframework/ui/freemarker/FreeMarkerTemplateUtils.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-jar/org/springframework/cache/caffeine/CaffeineCache.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-jar/org/springframework/cache/jcache/JCacheCache.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-jar/org/springframework/cache/jcache/config/AbstractJCacheConfiguration.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-jar/org/springframework/cache/ehcache/EhCacheCacheManager.java
* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-jar/org/springframework/cache/caffeine/CaffeineCacheManager.java
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* /opt/cola/permits/1135894971_1613626844.09/0/spring-context-support-5-2-12-release-sources-1-jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
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# Defaults for the Java Activation Framework (revised).
# Modified extensions registered in this file:
# text/plain java c c++ cpp pl cc h
# image/png
# image/svg+xml
# #
[#] # Additional file types adapted from
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#
# TEXT TYPES

text/x-speech		
text/css
text/csv

# IMAGE TYPES

# X-Windows bitmap (b/w)
image/x-xbitmap

# X-Windows pixelmap (8-bit color)
image/x-xpixmap

# Portable Network Graphics
image/png

# Scalable Vector Graphics
image/svg+xml

# Image Exchange Format (RFC 1314)
# RGB
image/g3faxg3f

# Group III Fax (RFC 1494)
image/x-xwindowdumpxwd

# X Windowdump format
image/x-pict pict

# PPM (UNIX PPM package)
image/x-portable-pixmapppm

# PGM (UNIX PPM package)
image/x-portable-graymappgm

# PBM (UNIX PPM package)
image/x-portable-bitmappbm

# PNM (UNIX PPM package)
image/x-portable-anymappnm

# Microsoft Windows bitmap
image/x-ms-bmp bmp

# CMU raster
image/x-cmu-raserras

# Kodak Photo-CD
image/x-photo-cdpcd

# Computer Graphics Metafile
image/cgm cgm

# CALS Type 1 or 2
image/x-calsmil cal

# Fractal Image Format (Iterated Systems)
image/fif fif

# QuickSilver active image (Micrografx)
image/x-mgx-dsfdsf

# CMX vector image (Corel)
image/x-cmx cmx

# Wavelet-compressed (Summus)
image/wavelet wi

# AutoCad Drawing (SoftSource)
image/vnd.dwg dwg

# AutoCad DXF file (SoftSource)
image/vnd.dxf dxf

# Simple Vector Format (SoftSource)
image/vnd.svf svf

# AUDIO/VOICE/MUSIC RELATED TYPES

# ""basic"" audio - 8-bit u-law PCM"
audio/basic au snd

# Macintosh audio format (Apple)
audio/x-aiff aiff aifc
# Microsoft audio
audio/x-wav

# MPEG audio
audio/x-mpegmpa abs mpega

# MPEG-2 audio
audio/x-mpeg-2mp2a mpa2

# compressed speech (Echo Speech Corp.)
audio/echospeeches

# Toolvox speech audio (Voxware)
audio/voxwarevox

# RapidTransit compressed audio (Fast Man)
application/fastmanlcc

# Realaudio (Progressive Networks)
application/x-pn-realauddiora ram

# MIDI music data
x-music/x-midimid

# Koan music data (SSeyo)
application/vnd.koan

# Speech synthesis data (MVP Solutions)
text/x-speechtalk

# VIDEO TYPES

# MPEG video
video/mpegmpeg mpg mpe

# MPEG-2 video
video/mpeg-2mpv2 mp2v

# Macintosh Quicktime
video/quicktimeqt mov

# Microsoft video
video/x-msvideoavi

# SGI Movie format
video/x-sgi-movie

# VDOlive streaming video (VDOnet)
video/vdovdo

# Vivo streaming video (Vivo software)
video/vnd.vivoviv

# SPECIAL HTTP/WEB APPLICATION TYPES

# Proxy autoconfiguration (Netscape browsers)
application/x-ns-proxy-autoconfigpac

# Netscape Cooltalk chat data (Netscape)
x-conference/x-cooltalkice

# TEXT-RELATED

# PostScript
application/postscript eps ps
# Microsoft Rich Text Format
application/rtf
# Adobe Acrobat PDF
application/pdf
# Maker Interchange Format (FrameMaker)
application/vnd.mif
# Troff document
application/x-troff tr roff
# Troff document with MAN macros
application/x-troff-manman
# Troff document with ME macros
application/x-troff-meme
# Troff document with MS macros
application/x-troff-msms
# LaTeX document
application/x-latex
# Tex/LaTeX document
application/x-tex
# GNU TexInfo document
application/x-texinfo texi
dvi
# TeX dvi format
application/x-dvidvi
# MS word document
application/msword DOC
# Office Document Architecture
application/oda oda
# Envoy Document
application/envoy evy

# ARCHIVE/COMPRESSED ARCHIVES

# Gnu tar format
application/x-gtar
dtar
# 4.3BSD tar format
application/x-tar
# POSIX tar format
application/x-ustar
# Old CPIO format
application/x-cpio
# POSIX CPIO format
application/x-cpio
# UNIX sh shell archive
application/x-shar
# DOS/PC - Pkzipped archive
application/zip
# Macintosh Binhexed archive
application/mac-binhex40 hqx
# Macintosh Stuffit Archive
application/x-stuffitsit sit

# Fractal Image Format
application/fractalsfiltr

# "Binary UUencoded"
application/octet-stream uu

# PC executable
application/octet-stream exe

# "WAIS ""sources"
application/x-wais-sources src wsrc

# NCSA HDF data format
application/hdf hdf

# DOWNLOADABLE PROGRAM/SCRIPTS

# Javascript program
text/javascript js mocha

# UNIX bourne shell program
application/x-sh sh

# UNIX c-shell program
application/x-csh csh

# Perl program
application/x-perl pl

# Tcl (Tool Control Language) program
application/x-tcl tcl

# ANIMATION/MULTIMEDIA

# FutureSplash vector animation (FutureWave)
application/futuresplash spl

# mBED multimedia data (mBED)
application/mbedlet mbd

# PowerMedia multimedia (RadMedia)
application/x-rad-powermediarad

# PRESENTATION

# PowerPoint presentation (Microsoft)
application/mspowerpoint ppz

# ASAP WordPower (Software Publishing Corp.)
application/x-asap asp

# Astound Web Player multimedia data (GoldDisk)
application/astound mbd

# SPECIAL EMBEDDED OBJECT

# OLE script e.g. Visual Basic (Ncompass)
application/x-olescriptaxs
# OLE Object (Microsoft/NCompass)
application/x-oleobjectodds

# OpenScape OLE/OCX objects (Business@Web)
x-form/x-openscapeopp

# Visual Basic objects (Amara)
application/x-webbasicwba

# Specialized data entry forms (Alpha Software)
application/x-alpha-formfrm

# client-server objects (Wayfarer Communications)
x-script/x-wfxclientwfx

# GENERAL APPLICATIONS

# Undefined binary data (often executable progs)
application/octet-stream exe com

# Pointcast news data (Pointcast)
application/x-pcnpcn

# Excel spreadsheet (Microsoft)
application/vnd.ms-excel xls

# PowerPoint (Microsoft)
application/vnd.ms-powerpoint ppt

# Microsoft Project (Microsoft)
application/vnd.ms-projectmpp

# SourceView document (Dataware Electronics)
application/vnd.svd svd

# Net Install - software install (20/20 Software)
application/x-net-install ins

# Carbon Copy - remote control/access (Microcom)
application/cccv ccv

# Spreadsheets (Visual Components)
workbook/formulaonevts

# 2D/3D DATA/VIRTUAL REALITY TYPES

# VRML data file
x-world/x-vrmlwrl vrml

# WIRL - VRML data (VREAM)
x-world/x-vreamvrw

# Play3D 3d scene data (Play3D)
application/x-p3dp3d

# Viscape Interactive 3d world data (Superscape)
x-world/x-svrsrvr

# WebActive 3d data (Plastic Thought)
x-world/x-wwrwvr

# QuickDraw3D scene data (Apple)
x-world/x-3dmf3dmf

# SCIENTIFIC/MATH/CAD TYPES
Mathematica notebook
application/mathematica

Computational meshes for numerical simulations
x-model/x-mesh

Vis5D 5-dimensional data
application/vis5d

IGES models -- CAD/CAM (CGM) data
application/iges

Autocad WHIP vector drawings
drawing/x-dwf

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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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1.1242 jetty 8.1.7.v20120910
1.1242.1 Available under license:

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Connector: HTTP Connector.
server: MOBject:RO:The server for this connector
requestHeaderSize: The size of a request header buffer
requestBufferSize: The size of a request content buffer
responseHeaderSize: The size of a response header buffer
responseBufferSize: The size of a response content buffer
integralPort: Port to use for integral redirections
integralScheme: Scheme to use for integral redirections
confidentialPort: Port to use for confidential redirections
confidentialScheme: Scheme to use for confidential redirections
host: Host name to accept connections on
port: TCP/IP port to accept connections on
maxIdleTime: Maximum time in ms that a connection can be idle before being closed
statsOn: True if statistics collection is turned on.
statsOnMs: Time in milliseconds stats have been collected for.
statsReset(): Reset statistics.
connections: Number of connections accepted by the server since statsReset() called. Undefined if setStatsOn(false).
connectionsOpen: Number of connections currently open that were opened since statsReset() called. Undefined if setStatsOn(false).
connectionsOpenMax: Maximum number of connections opened simultaneously since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMean: Mean duration in milliseconds of open connections since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationStdDev: Standard deviation of duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).
connectionsDurationMax: Maximum duration in milliseconds of an open connection since statsReset() called. Undefined if setStatsOn(false).

connectionsDurationTotal: Total duration in milliseconds of all open connection since statsReset() called. Undefined if setStatsOn(false).

connectionsRequestsMean: Mean number of requests per connection since statsReset() called. Undefined if setStatsOn(false).

connectionsRequestsStdDev: Standard deviation of number of requests per connection since statsReset() called. Undefined if setStatsOn(false).

connectionsRequestsMax: Maximum number of requests per connection since statsReset() called. Undefined if setStatsOn(false).

requests: Number of requests since statsReset() called. Undefined if setStatsOn(false).

open(): Open the listening port

close(): Close the listening port (but allow existing connections to continue for graceful shutdown)

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/jmx/Connector-mbean.properties

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/**
 * Utf8 Appendable abstract base class
 *
 * This abstract class wraps a standard {@link java.lang.Appendable} and provides methods to append UTF-8 encoded bytes, that are converted into characters.
 *
 * This class is stateful and up to 4 calls to {@link #append(byte)} may be needed before state a character is appended to the string buffer.
 *
 * The UTF-8 decoding is done by this class and no additional buffers or Readers are used. The UTF-8 code was inspired by
 * http://bjoern.hoehrmann.de/utf-8/decoder/dfa/
 *
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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/MultiPartInputStream.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/handler/AbstractHandlerContainer.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/EndPoint.java

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/thread/Timeout.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/component/AggregateLifeCycle.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/FragmentExtension.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/View.java
  * /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/permits/session/JDBCSessionManager.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/WebSocketServlet.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/handler/ProxyHandler.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/WebSocketConnectionD08.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/security/CertificateValidator.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/Attributes.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/ajax/JSONObjectConvertor.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/preventers/DriverManagerLeakPreventer.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/nio/DirectNIOBuffer.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/log/Log.java
  * /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/preventers/AbstractLeakPreventer.java
  * /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/io/nio/RandomAccessFileBuffer.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/UrlEncoded.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/ui/UncheckedIOException.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/ServletRequestHttpWrapper.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/preventers/SecurityProviderLeakPreventer.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/WebSocketFactory.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/FixedMaskGen.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/ServletRequestHttpWrapper.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/IO.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/WebSocketConnectionRFC6455.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/session/HashedSession.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/nio/NIOConnector.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/continuation/ContinuationListener.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/WebSocketParserD00.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/thread/QueuedThreadPool.java

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/http/gzip/AbstractCompressedStream.java

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/HttpWriter.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/websocket/MaskGen.java

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/HttpWriter.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/log/JavaUtilLog.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/resource/ResourceFactory.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/HttpWriter.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/preventers/GCThreadLeakPreventer.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/ResourceCache.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/HttpWriter.java

* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/util/preventers/GCThreadLeakPreventer.java

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/io/nio/NIOBuffer.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/component/Dumpable.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/Dispatcher.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/log/AbstractLogger.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/websocket/WebSocketCompiler.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/websocket/WebSocketClientFactory.java
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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/websocket/WebSocketGeneratorRFC6455.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/http/HttpException.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/io/UnbufferedPrintWriter.java
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/util/log/RolloverFileOutputStream.java

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/**
 * By default, we're confidential, given we speak SSL. But, if we've been told about an
 * confidential port, and said port is not our port, then we're not. This allows separation of
 * listeners providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener
 * configured to require client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */
/**
 * By default, we're integral, given we speak SSL. But, if we've been told about an integral
 * port, and said port is not our port, then we're not. This allows separation of listeners
 * providing INTEGRAL versus CONFIDENTIAL constraints, such as one SSL listener configured to
 * require client certs providing CONFIDENTIAL, whereas another SSL listener not requiring
 * client certs providing mere INTEGRAL constraints.
 */

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/ssl/SslSocketConnector.java

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/**
 * @param c Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */
/**
 * @return Data constrain indicator: 0=DC+NONE, 1=DC_INTEGRAL &
 * 2=DC_CONFIDENTIAL
 */

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
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/**
 * @see org.eclipse.jetty.server.Connector#getConfidentialPort()
 */
/**
 * @see org.eclipse.jetty.server.Connector#getConfidentialScheme()
 */
/**
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server .Request)
 */
/**
 * @see org.eclipse.jetty.server.Connector#isConfidential(org.eclipse.jetty.server.Request)
 */
/**
 * @param confidentialPort
 *            The confidentialPort to set.
 */
/**
 * @param confidentialScheme
 *            The confidentialScheme to set.
 */

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* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-
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/*
* @(#)UnixCrypt.java 0.9 96/11/25
*
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/**
 * @return The port to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
 * @return The schema to use when redirecting a request if a data constraint of confidential is
 * required. See {@link org.eclipse.jetty.util.security.Constraint#getDataConstraint()}
 */
/**
 * @param request A request
 * @return true if the request is confidential. This normally means the https schema has been used.
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2.jar/org/eclipse/jetty/server/Connector.java
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AbstractConnector: Abstract implementation of the Connector interface.
acceptors: The number of acceptor threads.
acceptQueueSize: The size of the accept queue.
acceptorPriorityOffset: Priority offset of the acceptor threads. The priority is adjusted by this amount to either favor
the acceptance of new threads and newly active connections or to favor the handling of already dispatched
connections.
forwardedForHeader: The header name for forwarded for (default x-forwarded-for).
forwardedHostHeader: The header name for forwarded hosts (default x-forwarded-host)
forwardedServerHeader: The header name for forwarded server (default x-forwarded-server)
forwarded: Whether reverse proxy handling is on. True if this connector is checking the forwarded for/host/server headers.
host: Host name of the server.
hostHeader: Forced value for the host header. Only used if forwarded is true.
soLingerTime: Enable or disable SO_LINGER with the specified linger time in seconds.
reuseAddress: Whether the server socket will be opened in SO_REUSEADDR mode.
name: Name of the connector.
resolveNames: Whether or not to use DNS when handling forwards.
confidentialPort: Port to use for confidential redirections.
confidentialScheme: Scheme to use for confidential redirections.
integralPort: Port to use for integral redirections.
integralScheme: Scheme to use for integral redirections.
lowResourcesMaxIdleTime: The period in ms that a connection may be idle when the connector has low resources, before it is closed.

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/**
 * By default, we're confidential, given we speak SSL. But, if we've been
 * told about an confidential port, and said port is not our port, then
 * we're not. This allows separation of listeners providing INTEGRAL versus
 * CONFIDENTIAL constraints, such as one SSL listener configured to require
 * client certs providing CONFIDENTIAL, whereas another SSL listener not
 * requiring client certs providing mere INTEGRAL constraints.
 */

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/**
 * Find out if the request supports CONFIDENTIAL security.
 * @param request the incoming HTTP request
 * @return the result of calling {Connector#isConfidential(Request)}, or false
 * if there is no connector
 */

Found in path(s):
* /opt/cola/permits/1001042990_1607107054.43/0/jetty-server-8-1-7-v20120910-sources-2-jar/org/eclipse/jetty/server/AbstractHttpConnection.java

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mgo - MongoDB driver for Go

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// License information for the exposed API.

// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,oempty"`
    URL  string `json:"url,oempty"`
}
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.1255 go-storage 1.10.0

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package cloud

import (  
    "bytes"  
    "io/ioutil"  
    "os"  
    "path/filepath"  
    "strings"  
    "testing"  
)

var sentinels = []string{  
    "Copyright",  
    "Google",  
    "Licensed under the Apache License, Version 2.0 (the "License");",  
}

func TestLicense(t *testing.T) {  
t.Parallel()  
err := filepath.Walk(".", func(path string, fi os.FileInfo, err error) error {  
    if err != nil {  
        return err  
    }  
    if ext := filepath.Ext(path); ext != ".go" && ext != ".proto" {  
        return nil  
    }  
    if strings.HasSuffix(path, ".pb.go") {  
        // .pb.go files are generated from the proto files.  
    }  
}}
return nil
}
if path == "bigtable/cmd/cbt/cbtdoc.go" {
  // Automatically generated.
  return nil
}
if path == "cmd/go-cloud-debug-agent/internal/debug/elf/elf.go" {
  // BSD license, which is compatible, is embedded in the file.
  return nil
}
src, err := ioutil.ReadFile(path)
if err != nil {
  return nil
}
src = src[:300] // Ensure all of the sentinel values are at the top of the file.

// Find license
for _, sentinel := range sentinels {
  if !bytes.Contains(src, []byte(sentinel)) {
    t.Errorf("%v: license header not present. want %q, path, sentinel)``
    return nil
  }
}

if err != nil {
  t.Fatal(err)
}

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1.1256 go-runtime 1.16.9
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# the appropriate Contributor License Agreement, found here:
#
#   http://code.google.com/legal/individual-cla-v1.0.html
#
# The agreement for individuals can be filled out on the web.

# Names should be added to this file like so:
#   Individual’s name <submission email address>
#   Individual’s name <submission email address> <email2> <emailN>
#
# An entry with multiple email addresses specifies that the
# first address should be used in the submit logs and
# that the other addresses should be recognized as the
# same person when interacting with Gerrit.
# Please keep the list sorted.

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* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/simp/SimpMessageSendingOperations.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/simp/user/SimpSession.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/convert/converter/ContentTypeResolver.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/simp/annotation/support/SubscriptionMethodReturnValueHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/invocation/HandlerMethodReturnValueHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/invocation/MethodArgumentResolutionException.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/invocation/CompletableFutureReturnValueHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/invocation/AbstractAsyncReturnValueHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/invocation/HandlerMethodReturnValueHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/converter/GenericMessageConverter.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/converter/ByteArrayMessageConverter.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/converter/SmartMessageConverter.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/converter/StringMessageConverter.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/converter/DefaultContentTypeResolver.java

Open Source Used In Crosswork Platform Infrastructure cw-infra-4.1.0-dockerimages-clean 9141
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* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/handler/MessagingAdviceBean.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/simp/broker/BrokerAvailabilityEvent.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/tcp/reactor/ReactorNettyTcpConnection.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/core/DestinationResolvingMessageRequestReplyOperations.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/simp/SimpAttributesContextHolder.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/simp/broker/AbstractSubscriptionRegistry.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/tcp/FixedIntervalReconnectStrategy.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/simp/user/UserDestinationMessageHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/handler/annotation/MessageExceptionHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/core/MessageSendingOperations.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/core/CachingDestinationResolverProxy.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/simp/SimpLogging.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/tcp/TcpConnection.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
  jar/org/springframework/messaging/core/AbstractDestinationResolvingMessagingTemplate.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-
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*/
/**
* Set the max pool size of the ThreadPoolExecutor.
* <p><strong>NOTE:</strong> When an unbounded
* [@link #queueCapacity(int) queueCapacity] is configured (the default), the
* max pool size is effectively ignored. See the "Unbounded queues" strategy
* in [@link java.util.concurrent.ThreadPoolExecutor ThreadPoolExecutor] for
* more details.
* <p>By default this is set to { @code Integer.MAX_VALUE}.
*/
*/

Found in path(s):
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/simp/config/TaskExecutorRegistration.java
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* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/annotation/Header.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/invocation/HandlerMethodArgumentResolver.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/simp/stomp/ConnectionHandlingStompSession.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/simp/user/DestinationUserNameProvider.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/simp/stomp/StompFrameHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/simp/annotation/SubscribeMapping.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/tcp/TcpOperations.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/invocation/ListenableFutureReturnValueHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/annotation/Payload.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/tcp/TcpConnectionHandler.java
* /opt/cola/permits/1135872346_1613620723.17/0/spring-messaging-5-2-12-release-sources-1-jar/org/springframework/messaging/handler/MessageCondition.java
1.1259 shortid 0.0.0-20171029131806-771a37caa5cf

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1.1260 jackson-dataformat-csv 2.10.5

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Manifest-Version: 1.0
Bnd-LastModified: 1595302282882
Build-Jdk: 1.8.0_162
Built-By: tatu
Bundle-Description: Support for reading and writing CSV-encoded data via Jackson abstractions.
Bundle-DocURL: https://github.com/FasterXML/jackson-dataformats-text
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-ManifestVersion: 2
Bundle-Name: Jackson-dataformat-CSV
Bundle-SymbolicName: com.fasterxml.jackson.dataformat.jackson-dataformat-csv
Bundle-Vendor: FasterXML
Bundle-Version: 2.10.5
Created-By: Apache Maven Bundle Plugin
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1.1262 go-uuid 1.1.0
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1.1263 spring-security-cas 5.4.2
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* /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/authentication/StatelessTicketCache.java
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* /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/web/authentication/package-info.java
* /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/web/package-info.java
* /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/authentication/package-info.java
* /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/package-info.java
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  * /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/userdetails/GrantedAuthorityFromAssertionAttributesUserDetailsService.java
  * /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/web/CasAuthenticationFilter.java
  * /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/authentication/CasAuthenticationProvider.java
  * /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/authentication/NullStatelessTicketCache.java
  * /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/SamlServiceProperties.java
  * /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/authentication/CasAuthenticationToken.java
  * /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/authentication/CasAssertionAuthenticationToken.java
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* /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/web/authentication/ServiceAuthenticationDetails.java
* /opt/cola/permits/1170796124_1635885922.09/0/spring-security-cas-5-4-2-sources-jar/org/springframework/security/cas/web/authentication/ServiceAuthenticationDetailsSource.java

## 1.1264 icu 67.1-r2
### 1.1264.1 Available under license:

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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,- Bsymb]

## 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\o : /g" > $@; \\
| -s $@ ] || rm -f $@' -

%.d: $(srcdir)/%.cpp
@echo "generating dependency information for $<"
@$(SHELL) -ec '$(GEN_DEPS.cc) $< \\
| sed "s/[^()]*/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,-Bsymblic

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

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

## End BSD-specific setup
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1.1266 jackson 2.10.5

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1.1268 jcmtturner-rpc 2.0.3

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The primary ANTLR guy:

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1.1281 aws-sdk-go 1.31.9

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1.1286 postgresql-jdbc 42.2.18

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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package api

import (  "io/ioutil"  "strings"  "time"
)

type License struct {
  // The unique identifier of the license
  LicenseID string `json:"license_id"`  

  // The customer ID associated with the license
  CustomerID string `json:"customer_id"`  

  // If set, an identifier that should be used to lock the license to a particular site, cluster, etc.
  InstallationID string `json:"installation_id"`  

  // The time at which the license was issued
  IssueTime time.Time `json:"issue_time"`  

  // The time at which the license starts being valid
  StartTime time.Time `json:"start_time"`  

  // The time after which the license expires
  ExpirationTime time.Time `json:"expiration_time""
// The time at which the license ceases to function and can
// no longer be used in any capacity
TerminationTime time.Time `json:"termination_time"

// The product the license is valid for
Product string `json:"product"

// License Specific Flags
Flags map[string]interface{} `json:"flags"

// Modules is a list of the licensed enterprise modules
Modules []string `json:"modules"

// List of features enabled by the license
Features []string `json:"features"

}

type LicenseReply struct {
Valid   bool
License *License
Warnings []string
}

func (op *Operator) LicenseGet(q *QueryOptions) (*LicenseReply, error) {
var reply LicenseReply
if _, err := op.c.query("/v1/operator/license", &reply, q); err != nil {
    return nil, err
} else {
    return &reply, nil
}
}

func (op *Operator) LicenseGetSigned(q *QueryOptions) (string, error) {
    r := op.c.newRequest("GET", "/v1/operator/license")
r.params.Set("signed", "1")
r.setQueryOptions(q)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return "", err
    }
    defer closeResponseBody(resp)

    data, err := ioutil.ReadAll(resp.Body)
    if err != nil {
        return "", err
    }
}
return string(data), nil
}

// LicenseReset will reset the license to the builtin one if it is still valid.
// If the builtin license is invalid, the current license stays active.
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicenseReset(opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("DELETE", "/v1/operator/license")
    r.setWriteOptions(opts)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

// LicensePut will configure the Consul Enterprise license for the target datacenter
// DEPRECATED: Consul 1.10 removes the corresponding HTTP endpoint as licenses
// are now set via agent configuration instead of through the API
func (op *Operator) LicensePut(license string, opts *WriteOptions) (*LicenseReply, error) {
    var reply LicenseReply
    r := op.c.newRequest("PUT", "/v1/operator/license")
    r.setWriteOptions(opts)
    r.body = strings.NewReader(license)
    _, resp, err := requireOK(op.c.doRequest(r))
    if err != nil {
        return nil, err
    }
    defer resp.Body.Close()
    if err := decodeBody(resp, &reply); err != nil {
        return nil, err
    }
    return &reply, nil
}

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Configurable modular Prometheus exporter for various node metrics.
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 */

package minio

import (  "bytes"  "context"  "encoding/xml"  "fmt"  "net/http"  "net/url"
// objectLegalHold - object legal hold specified in
// https://docs.aws.amazon.com/AmazonS3/latest/API/archive-RESTObjectPUTLegalHold.html
// XMLNS string `xml:xmlns.attr.omitempty"` XMLName xml.Name `xml:LegalHold"` Status LegalHoldStatus `xml:Status.omitempty"`

// PutObjectLegalHoldOptions represents options specified by user for PutObjectLegalHold call
type PutObjectLegalHoldOptions struct {
    VersionID string
    Status    *LegalHoldStatus
}

// GetObjectLegalHoldOptions represents options specified by user for GetObjectLegalHold call
type GetObjectLegalHoldOptions struct {
    VersionID string
}

// LegalHoldStatus - object legal hold status.
type LegalHoldStatus string

const ( // LegalHoldEnabled indicates legal hold is enabled LegalHoldEnabled LegalHoldStatus = "ON"

// LegalHoldDisabled indicates legal hold is disabled LegalHoldDisabled LegalHoldStatus = "OFF"
)

func (r LegalHoldStatus) String() string {
    return string(r)
}

// IsValid - check whether this legal hold status is valid or not.
func (r LegalHoldStatus) IsValid() bool {
    return r == LegalHoldEnabled || r == LegalHoldDisabled
}

func newObjectLegalHold(status *LegalHoldStatus) (*objectLegalHold, error) {
    if status == nil {
        return nil, fmt.Errorf("Status not set")
    }

    if !status.IsValid() {
        return nil, fmt.Errorf("Status not set")
    }

    return &objectLegalHold{
        // other fields
    }, nil
}
return nil, fmt.Errorf("invalid legal hold status \"%v\", status)  
}
legalHold := &objectLegalHold{
    Status: *status,
}
return legalHold, nil

// PutObjectLegalHold : sets object legal hold for a given object and versionID.
func (c Client) PutObjectLegalHold(ctx context.Context, bucketName, objectName string, opts
    PutObjectLegalHoldOptions) error {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return err
    }

    // Get resources properly escaped and lined up before
    // using them in http request.
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")
    if opts.VersionID != "" {
    }
    lh, err := newObjectLegalHold(opts.Status)
    if err != nil {
        return err
    }
    lhData, err := xml.Marshal(lh)
    if err != nil {
        return err
    }
    reqMetadata := requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentBody:      bytes.NewReader(lhData),
        contentLength:    int64(len(lhData)),
        contentMD5Base64: sumMD5Base64(lhData),
        contentSHA256Hex: sum256Hex(lhData),
    }
}
// Execute PUT Object Legal Hold.
deferr closeResponse(resp)
if err != nil {
    return err
}
if resp != nil {
        return httpRespToErrorResponse(resp, bucketName, objectName)
    }
}
return nil

// GetObjectLegalHold gets legal-hold status of given object.
func (c Client) GetObjectLegalHold(ctx context.Context, bucketName, objectName string, opts GetObjectLegalHoldOptions) (status *LegalHoldStatus, err error) {
    // Input validation.
    if err := s3utils.CheckValidBucketName(bucketName); err != nil {
        return nil, err
    }
    if err := s3utils.CheckValidObjectName(objectName); err != nil {
        return nil, err
    }
    urlValues := make(url.Values)
    urlValues.Set("legal-hold", "")

    if opts.VersionID != "" {
    }

    // Execute GET on bucket to list objects.
    resp, err := c.executeMethod(ctx, http.MethodGet, requestMetadata{
        bucketName:       bucketName,
        objectName:       objectName,
        queryValues:      urlValues,
        contentSHA256Hex: emptySHA256Hex,
    })
deferr closeResponse(resp)
    if err != nil {
        return nil, err
    }
    if resp != nil {
        if resp.StatusCode != http.StatusOK {
            return nil, httpRespToErrorResponse(resp, bucketName, objectName)
        }
    }
}
 lh := &objectLegalHold{ }
if err = xml.NewDecoder(resp.Body).Decode(lh); err != nil {
 return nil, err
 }

 return &lh.Status, nil

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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 swag.ConcatJSON(b1, b2), nil
}

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1305 json-iterator-go 1.1.8

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1.1318 javax-ws-rs-api 2.0

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1.1320 kafkacat 1.5.0-r0
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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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jar/org/springframework/beans/factory/parsing/ProblemReporter.java

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* /opt/cola/permits/1170796133_1622715525.25/0/spring-webflow-2-5-1-release-sources.jar/org/springframework/webflow/core/collection/package-info.java
* /opt/cola/permits/1170796133_1622715525.25/0/spring-webflow-2-5-1-release-sources.jar/org/springframework/webflow/execution/repository/snapshot/SimpleFlowExecutionSnapshotFactory.java
* /opt/cola/permits/1170796133_1622715525.25/0/spring-webflow-2-5-1-release-sources.jar/org/springframework/webflow/engine/FlowExecutionImpl.java
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* /opt/cola/permits/1170796133_1622715525.25/0/spring-webflow-2-5-1-release-sources-jar/org/springframework/webflow/validation/ValidationHintResolver.java
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* /opt/cola/permits/1170796133_1622715525.25/0/spring-webflow-2-5-1-release-sources-jar/org/springframework/webflow/engine/model/builder/xml/WebFlowEntityResolver.java
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  jar/org/springframework/webflow/conversation/impl/ConversationContainer.java

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Version 2.1, February 1999

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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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<th>Year</th>
<th>Owner</th>
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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.

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1.1337 nuid 1.0.1
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1.1338 x-oauth2 0.0.0-20190604053449-0f29369cfe45

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    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, nil
}
Previous string `json:"previous"`
)
  `json:"links"
}
err := r.ExtractInto(&s)
if err != nil {
  return "", err
}
return s.Links.Next, err
}

// ExtractResources returns a slice of Resources contained in a single page of
// results.
func ExtractResources(r pagination.Page) ([]Resource, error) {
  var s struct {
      Resources []Resource `json:"resources"
    }
  err := (r.(ResourcePage)).ExtractInto(&s)
  return s.Resources, err
}

// Extract interprets any commonResult as a Resource.
func (r commonResult) Extract() (*Resource, error) {
  var s struct {
      Resource *Resource `json:"resource"
    }
  err := r.ExtractInto(&s)
  return s.Resource, 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)
* https://github.com/gophercloud/gophercloud/pull/586
* https://github.com/gophercloud/gophercloud/pull/587
* https://github.com/gophercloud/gophercloud/pull/594

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 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:

```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 -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).

---

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).

```go
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 an 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: r}}
    })
}

// Get retrieves details of a RESOURCE.
func Get(client *gophercloud.ServiceClient, id string) (r GetResult) {
// 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)
}


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()

    // Update logic here
}
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](http://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 NAME manages and retrieves RESOURCE in the OpenStack SERVICE Service.

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](https://github.com/gophercloud/gophercloud/issues/749) 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:

* [GitHub issue 715](https://github.com/gophercloud/gophercloud/issues/715)
* [GitHub issue 719](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:

* [GitHub issue 539](https://github.com/gophercloud/gophercloud/issues/539)
* [GitHub issue 555](https://github.com/gophercloud/gophercloud/issues/555)
* [GitHub issue 571](https://github.com/gophercloud/gophercloud/issues/571)
* [GitHub issue 583](https://github.com/gophercloud/gophercloud/issues/583)
* [GitHub issue 605](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"`
    Shared    bool `json:"shared"`
}
```
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
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).

1.1339 joyent-triton-go 0.0.0-20180313100802-d8f9c0314926

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Gocheck - A rich testing framework for Go

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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1.1350 jinja2 2.11.2

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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/jinja2/__init__.py", "rt", encoding="utf8") as f:
    version = re.search(r'__version__ = "(.*)"', f.read(), re.M).group(1)

setup(
    name="Jinja2",
    version=version,
    url="https://palletsprojects.com/p/jinja/",
    project_urls={
        "Documentation": "https://jinja.palletsprojects.com/",
        "Code": "https://github.com/pallets/jinja",
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    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=readme,
    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 :: 2",
        "Programming Language :: Python :: 2.7",
        "Programming Language :: Python :: 3",
        "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 :: WWW/HTTP :: Dynamic Content",
        "Topic :: Software Development :: Libraries :: Python Modules",
        "Topic :: Text Processing :: Markup :: HTML",
    ],
    packages=find_packages("src"),
package_dir={},
include_package_data=True,
python_requires=">=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*",
install_requires=["MarkupSafe>=0.23"],
extras_require=["i18n": ["Babel==0.8"]],
entry_points={"babel.extractors": ["jinja2 = jinja2.ext:babel_extract[i18n]"]},
)

Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/setup.py
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/LICENSE.rst
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Metadata-Version: 2.1
Name: Jinja2
Version: 2.11.2
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

```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 %}
```

Links
-----

- Website: https://palletsprojects.com/p/jinja/
- Documentation: https://jinja.palletsprojects.com/
- Releases: https://pypi.org/project/Jinja2/
- Code: https://github.com/pallets/jinja
- Issue tracker: https://github.com/pallets/jinja/issues
- Test status: https://dev.azure.com/pallets/jinja/_build
- Official chat: https://discord.gg/t6rrQZH

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 :: 2
Classifier: Programming Language :: Python :: 2.7
Classifier: Programming Language :: Python :: 3
Classifier: Programming Language :: Python :: 3.5
Classifier: Programming Language :: Python :: 3.6
Classifier: Programming Language :: Python :: 3.7
Classifier: Programming Language :: Python :: 3.8
Classifier: Programming Language :: Python :: Implementation :: CPython
Classifier: Programming Language :: Python :: Implementation :: PyPy
Classifier: Topic :: Internet :: WWW/HTTP :: Dynamic Content
Classifier: Topic :: Software Development :: Libraries :: Python Modules
Classifier: Topic :: Text Processing :: Markup :: HTML
Requires-Python: >=2.7, !=3.0.*, !=3.1.*, !=3.2.*, !=3.3.*, !=3.4.*  
Description-Content-Type: text/x-rst  
Provides-Extra: i18n

Found in path(s):  
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/PKG-INFO  
* /opt/cola/permits/1160880513_1620412497.03/0/jinja2-2-11-2-1-tar-gz/Jinja2-2.11.2/src/Jinja2.egg-info/PKG-INFO

1.1351 nu7hatch-gouuid 0.0.0-20131221200532-179d4d0c4d8d

1.1351.1 Available under license:

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1.1352 cachecontrol 0.12.6-1.ph4

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Version 2.0, January 2004

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* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-jar/org/apereo/services/persondir/support/ldap/LdaptivePersonAttributeDao.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-jar/org/apereo/services/persondir/support/BasePersonImpl.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-jar/org/apereo/services/persondir/support/merger/MultivaluedAttributeMerger.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-jar/org/apereo/services/persondir/support/rule/AttributeRule.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-jar/org/apereo/services/persondir/support/AbstractAggregatingDefaultQueryPersonAttributeDao.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-jar/org/apereo/services/persondir/support/CachingPersonAttributeDaoImpl.java

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  jar/org/apereo/services/persondir/support/merge/IAttributeMerger.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-
  jar/org/apereo/services/persondir/support/ldap/AttributeMapAttributesMapper.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-
  jar/org/apereo/services/persondir/support/EchoPersonAttributeDaoImpl.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-
  jar/org/apereo/services/persondir/support/xml/CachingJaxbLoader.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-
  jar/org/apereo/services/persondir/support/AdditionalDescriptorsPersonAttributeDao.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-
  jar/org/apereo/services/persondir/support/rule/DeclaredRulePersonAttributeDao.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-
  jar/org/apereo/services/persondir/support/jdbc/MultiRowJdbcPersonAttributeDao.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-
  jar/org/apereo/services/persondir/support/SimpleUsernameAttributeProvider.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-
  jar/org/apereo/services/persondir/support/web/RequestAttributeSourceFilter.java
* /opt/cola/permits/1170796378_1622715550.17/0/person-directory-impl-2-0-7-sources-
  jar/org/apereo/services/persondir/support/BaseGroovyScriptDaoImpl.java

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1.1369 skopeo 1.3.1-r1
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Gocheck - A rich testing framework for Go

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https://github.com/dradtke/gotk3

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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metrics from the pseudo-filesystem proc.

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1.1374 distlib 0.3.3

1.1374.1 Available under license:

A. HISTORY OF THE SOFTWARE

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

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

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

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

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(2) 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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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

Thanks to:

- Rajiv Abraham
- Ali Afshar
- David Barnett
- Pior Bastida
- Anthony Baxter
- Erik Bray
- C. Titus Brown
- Francisco Martin Brugu
- Nicolas Cadou
- Godefroid Chapelle
- Julien Courteau
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1.1375 py3-distlib 0.3.1-r3

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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
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The Distutils2 project was started by Tarek Ziad and is currently maintained by ric Araujo. Many people have contributed to the project.

distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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1.1377 otel-sdk-export-metric 0.20.0

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### 1.1380 go-runtime 1.12.9

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* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/instrument/logging/LoggingRegistryConfig.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/instrument/util/NamedThreadFactory.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/ipc/HttpUrlConnectionSender.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/instrument/push/PushMeterRegistry.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/instrument/push/PushRegistryConfig.java

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* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/distribution/PercentileHistogramBuckets.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/configuration/package-info.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/Stats/compressed/package-info.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/distribution/package-info.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/Counter.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/distribution/package-info.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/Stats/compressed/package-info.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/Binder.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/Counter.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/distribution/package-info.java
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jar/io/micrometer/core/instrument/utils/package-info.java
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jar/io/micrometer/core/instrument/Stats/compressed/package-info.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/Stats/compressed/package-info.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/Metrics.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/binder/jvm/JvmThreadMetrics.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/config/InvalidConfigurationException.java
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 * /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/binder/mongodb/MongoMetricsConnectionPoolListener.java
 * /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/util/internal/logging/WarnThenDebugLogger.java
 * /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/internal/TimedScheduledExecutorService.java
 * /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/internal/TimedRunnable.java
 * /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-
jar/io/micrometer/core/instrument/binder/jvm/JvmMemory.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/instrument/internal/TimedCallable.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyServerThreadPoolMetrics.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/instrument/binder/jetty/InstrumentedQueuedThreadPool.java
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* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyConnectionMetrics.java
* /opt/cola/permits/1121920028_1610435894.6/0/micrometer-core-1-6-1-sources-jar/io/micrometer/core/instrument/binder/jetty/TimedHandler.java

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* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
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* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/channels/ChannelHandlerAdapter.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/story/OioServerSocketChannelConfig.java
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jar/io/netty/channel/DefaultAddressedEnvelope.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/DefaultMessageSizeEstimator.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/group/ChannelGroupException.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/ChannelProgressivePromise.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/ChannelProgressiveFuture.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/socket/nio/NioChannelOption.java

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* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-jar/io/netty/channel/SimpleUserEventChannelHandler.java
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  jar/io/netty/channel/ReflectiveChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-
  jar/io/netty/channel/ChannelFactory.java
* /opt/ws_local/PERMITS_SQL/1093815931_1601014618.02/0/netty-transport-4-1-52-final-sources-
  jar/io/netty/channel/AbstractEventLoop.java
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* <h3>Sub-types</h3>
* <p>
* [@link ChannelHandler] itself does not provide many methods, but you usually have to implement one of its
* subtypes:
* </p>
* <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:
* </p>
* <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 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.
* </p>
* <h3>State management</h3>
* <p>
* 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 SimpleChannelInboundHandler<Message> {
*     private boolean loggedIn;
*     
*     @Override
*     public void channelRead0(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();
*             }
*         }
*     }
* 
*     // 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());
*         }
*     }
* </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 ChannelInitializer#initChannel(Channel).
* public class DataServerInitializer extends ChannelInitializer<Channel> {
*     @Override
*     public void initChannel(@link Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* </pre>
* 
* <h4>Using 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 AttributeKey's which is provided by
* 
* Public class DataServerInitializer extends ChannelInitializer<Channel> {
*     
*     @Override
*     public void initChannel(@link Channel channel) {
*         channel.pipeline().addLast("handler", new DataServerHandler());
*     }
* </pre>
public interface Message {
    // your methods here
}

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

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        } else if (message instanceof GetDataMessage) {
            if (Boolean.TRUE.equals(attr.get())) {
                ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
            } else {
                fail();
            }
        }
    }

    // ...
}

Now that the state of the handler is attached to the ChannelHandlerContext, you can add the same handler instance to different pipelines:

public class DataServerInitializer extends ChannelInitializer<Channel> {
    private static final DataServerHandler SHARED = new DataServerHandler();

    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", SHARED);
    }
}

The @Sharable annotation

In the example above which used an AttributeKey, you might have noticed the @Sharable annotation.

If a ChannelHandler is annotated with the @Sharable
* annotation, it means you can create an instance of the handler just once and
* add it to one or more `@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
* <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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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javae_7.xsd
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- javae_web_services_client_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
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1.1402 cyrus-sasl 2.1.27-r12

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1.1405 zap 1.10.0

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1.1406 python-setuptools 52.0.0

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1.1407 terraform 0.12.24

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import (
    "encoding/json"
)

type LicenseInformation struct {
    LicenseType  string `json:"type"`    
    ValidThrough string `json:"validThrough"`   
    LicensedTo   string `json:"licensedTo"`   
}

func (c *ArtifactoryClient) GetLicenseInformation() (LicenseInformation, error) {
    o := make(map[string]string, 0)
    var l LicenseInformation
    d, e := c.Get("/api/system/license", o)
    if e != nil {
        return l, e
    } else {
        err := json.Unmarshal(d, &l)
        return l, err
    }
}

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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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1.1414 jul-to-slf4j 2.0.0-alpha1

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 *
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package artifactory

import (
    "encoding/json"
)

type LicenseInformation struct {
    LicenseType  string `json:"type"`
    ValidThrough string `json:"validThrough"`
    LicensedTo   string `json:"licensedTo"`
}

func (c *ArtifactoryClient) GetLicenseInformation() (LicenseInformation, error) {
    o := make(map[string]string, 0)
    var l LicenseInformation
    d, e := c.Get("/api/system/license", o)
    if e != nil {
        return l, e
    } else {
        err := json.Unmarshal(d, &l)
        return l, err
    }
}

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package artifactory

import (
    "bytes"
    "encoding/json"
    "fmt"
    "io/ioutil"
    "net/http"
    "net/http/httptest"
    "net/url"
    "os"
    "testing"
    "github.com/stretchr/testify/assert"
)

func TestGetLicenseInfo(t *testing.T) {
    responseFile, err := os.Open("assets/test/license_information.json")
    if err != nil {
        t.Fatal("Unable to read test data: %s", err.Error())
    }
    defer func() { _ = responseFile.Close() }()
    responseBody, _ := ioutil.ReadAll(responseFile)
        w.WriteHeader(200)
        w.Header().Set("Content-Type", "application/json")
        fmt.Fprintf(w, string(responseBody))
    }))
    defer server.Close()

    transport := &http.Transport{
Proxy: func(req *http.Request) (*url.URL, error) {
    return url.Parse(server.URL)
},

conf := &ClientConfig{
    BaseURL: "http://127.0.0.1:8080/",
    Username: "username",
    Password: "password",
    VerifySSL: false,
    Transport: transport,
}

client := NewClient(conf)
info, err := client.GetLicenseInfo()
assert.NoError(t, err, "should not return an error")
assert.Equal(t, "Trial", info.LicenseType, "Should have the Trial license type")
assert.Equal(t, "User Bob", info.LicensedTo, "Should be licensed to User Bob")

func TestInstallLicense(t *testing.T) {
    var buf bytes.Buffer
        w.WriteHeader(200)
        w.Header().Set("Content-Type", "application/json")
        req, _ := ioutil.ReadAll(r.Body)
        buf.Write(req)
        fmt.Fprintf(w, "")
    }))
    defer server.Close()

    transport := &http.Transport{
        Proxy: func(req *http.Request) (*url.URL, error) {
            return url.Parse(server.URL)
        },
    }

    conf := &ClientConfig{
        BaseURL: "http://127.0.0.1:8080/",
        Username: "username",
        Password: "password",
        VerifySSL: false,
        Transport: transport,
    }

    client := NewClient(conf)
license := InstallLicense{
    LicenseKey: "179b7ea384d0c4655a00dfac7285a21d986a17923",
}

expectedJSON := json.Marshal(license)
err := client.InstallLicense(license, make(map[string]string))
assert.NoError(t, err, "should not return an error")
assert.Equal(t, string(expectedJSON), buf.String(), "should send license json")

func TestGetHALicenseInfo(t *testing.T) {
    responseFile, err := os.Open("assets/test/ha_license_information.json")
    if err != nil {
        t.Fatal("Unable to read test data: %s", err.Error())
    }
    defer func() { _ = responseFile.Close() }()
    responseBody := ioutil.ReadAll(responseFile)
        w.WriteHeader(200)
        w.Header().Set("Content-Type", "application/json")
        fmt.Fprintf(w, string(responseBody))
    }))
    defer server.Close()
    transport := &http.Transport{
        Proxy: func(req *http.Request) (*url.URL, error) {
            return url.Parse(server.URL)
        },
    }
    conf := &ClientConfig{
        BaseURL: "http://127.0.0.1:8080/",
        Username: "username",
        Password: "password",
        VerifySSL: false,
        Transport: transport,
    }
    client := NewClient(conf)
    info, err := client.GetHALicenseInfo()
    assert.NoError(t, err, "should not return an error")
    assert.Len(t, info.Licenses, 2, "Should have 2 licenses")
    assert.Equal(t, "Enterprise", info.Licenses[0].LicenseType, "Should have the Enterprise license type")
    assert.Equal(t, "JFrog", info.Licenses[0].LicensedTo, "Should be licensed to JFrog")
    assert.Equal(t, "179b7ea384d0c4655a00dfac7285a21d986a17923", info.Licenses[0].LicenseHash, "Should have 179b7ea384d0c4655a00dfac7285a21d986a17923 license hash")
    assert.Equal(t, "art1", info.Licenses[0].NodeID, "Should have art1 node id")
func TestInstallHALicense(t *testing.T) {
    var buf bytes.Buffer
        w.WriteHeader(200)
        w.Header().Set("Content-Type", "application/json")
        req, _ := ioutil.ReadAll(r.Body)
        buf.Write(req)
        fmt.Fprintf(w, "")
    }))
    defer server.Close()

    transport := &http.Transport{
        Proxy: func(req *http.Request) (*url.URL, error) {
            return url.Parse(server.URL)
        },
    }

    conf := &ClientConfig{
        BaseURL: "http://127.0.0.1:8080/",
        Username: "username",
        Password: "password",
        VerifySSL: false,
        Transport: transport,
    }

    client := NewClient(conf)

    licenses := []InstallLicense{
        {LicenseKey: "179b7ea384d0c4655a00dfac7285a21d986a17923"},
        {LicenseKey: "e10b8aa1d1dc5107439ce43debc6e65dfeb71af3"},
    }

    expectedJSON, _ := json.Marshal(licenses)
    err := client.InstallHALicenses(licenses, make(map[string]string))
    assert.NoError(t, err, "should not return an error")
    assert.Equal(t, string(expectedJSON), buf.String(), "should send license json")
}

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package artifactory

import "encoding/json"

// LicenseInfo represents the json response from Artifactory for license information
type LicenseInfo struct {
    LicenseType  string `json:"type"`
    ValidThrough string `json:"validThrough"`
    LicensedTo   string `json:"licensedTo"`
}

// HALicense represents an element in the json response from Artifactory
type HALicense struct {
    LicenseType  string `json:"type"`
    ValidThrough string `json:"validThrough"`
    LicensedTo   string `json:"licensedTo"`
    LicenseHash  string `json:"licenseHash"`
NodeID  string `json:"nodeId"`
NodeURL  string `json:"nodeUrl"`
Expired  bool   `json:"expired"`
}

// HALicenseInfo represents the json response from Artifactory for the HA license information
type HALicenseInfo struct {
  Licenses  []HALicense `json:"licenses"`
}

// InstallLicense represents the json payload we send to Artifactory
type InstallLicense struct {
  LicenseKey  string `json:"licenseKey"`
}

// GetLicenseInfo returns information about the currently installed license
func (c *Client) GetLicenseInfo() (LicenseInfo, error) {
  var res LicenseInfo
  d, err := c.Get("/api/system/license", make(map[string]string))
  if err != nil {
    return res, err
  }
  err = json.Unmarshal(d, &res)
  return res, err
}

// InstallLicense installs a new license key or changes the current one
func (c *Client) InstallLicense(license InstallLicense, q map[string]string) error {
  j, err := json.Marshal(license)
  if err != nil {
    return err
  }
  _, err = c.Post("/api/system/license", j, q)
  return err
}

// GetHALicenseInfo returns information about the currently installed licenses in an HA cluster
func (c *Client) GetHALicenseInfo() (HALicenseInfo, error) {
  var res HALicenseInfo
  d, err := c.Get("/api/system/licenses", make(map[string]string))
  if err != nil {
    return res, err
  }
  err = json.Unmarshal(d, &res)
// InstallHALicenses installs a new license key(s) on an HA cluster
func (c *Client) InstallHALicenses(licenses []InstallLicense, q map[string]string) error {
    j, err := json.Marshal(licenses)
    if err != nil {
        return err
    }

    _, err = c.Post("/api/system/licenses", j, q)
    return err
}

package artifactory

import (        "encoding/json"
)

// LicenseInformation represents the json response from artifactory for license information
type LicenseInformation struct {
    LicenseType string `json:"type"`
    ValidThrough string `json:"validThrough"`
    LicensedTo   string `json:"licensedTo"`
}

// GetLicenseInformation returns license information from Artifactory
func (c *Client) GetLicenseInformation() (LicenseInformation, error) {
    o := make(map[string]string)
    var l LicenseInformation
    d, e := c.Get("/api/system/license", o)
    if e != nil {
        return l, e
    }
    err := json.Unmarshal(d, &l)
    return l, err
}

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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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1.1430 go-cty 1.7.1

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1.1431 jcip-annotation 1.0 1
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* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/NotThreadSafe.java
* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/ThreadSafe.java
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* /opt/ws_local/PERMITS_SQL/1013822089_1591370825.53/0/jcip-annotations-1-0-1-sources-jar/net/jcip/annotations/Immutable.java

1.1432 ghodss-yaml 1.0.0
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1.1433 pierrec-lz4 2.0.5+incompatible
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1.1434 google-api-go-client 0.9.0

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1.1435 go-homedir 1.1.0

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1.1436 govmomi 0.22.2-0.20200523220130-61b30e20be49

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*/

package license

import (
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
)

type assign struct {
    *flags.ClientFlag
    *flags.OutputFlag
    *flags.HostSystemFlag
    *flags.ClusterFlag

    name string
}
remove bool

func init() {
cli.Register("license.assign", &assign{ })
}

func (cmd *assign) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
    cmd.HostSystemFlag, ctx = flags.NewHostSystemFlag(ctx)
    cmd.HostSystemFlag.Register(ctx, f)
    cmd.ClusterFlag, ctx = flags.NewClusterFlag(ctx)
    cmd.ClusterFlag.Register(ctx, f)
    f.StringVar(&cmd.name, "name", "", "Display name")
    f.BoolVar(&cmd.remove, "remove", false, "Remove assignment")
}

func (cmd *assign) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.HostSystemFlag.Process(ctx); err != nil {
        return err
    }
    return cmd.ClusterFlag.Process(ctx)
}

func (cmd *assign) Usage() string {
    return "KEY"
}

func (cmd *assign) Description() string {
    return \'Assign licenses to HOST or CLUSTER.\'
}

Examples:

govc license.assign $VCSA_LICENSE_KEY
govc license.assign -host a_host.example.com $ESX_LICENSE_KEY
govc license.assign -cluster a_cluster $VSAN_LICENSE_KEY"
func (cmd *assign) Run(ctx context.Context, f *flag.FlagSet) error {
    if f.NArg() != 1 {
        return flag.ErrHelp
    }
    key := f.Arg(0)

    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    host, err := cmd.HostSystemIfSpecified()
    if err != nil {
        return err
    }

    var id string

    if host == nil {
        cluster, cerr := cmd.ClusterIfSpecified()
        if cerr != nil {
            return cerr
        }
        if cluster == nil {
            // Default to vCenter UUID
            id = client.ServiceContent.About.InstanceUuid
        } else {
            id = cluster.Reference().Value
        }
    } else {
        id = host.Reference().Value
    }

    if cmd.remove {
        return m.Remove(ctx, id)
    }

    info, err := m.Update(ctx, id, key, cmd.name)
    if err != nil {
        return err
    }

    return nil
}
package simulator

import {
    "context"
    "reflect"
    "testing"
    "github.com/vmware/govmomi"
    "github.com/vmware/govmomi/find"
    "github.com/vmware/govmomi/license"
}

func TestLicenseManagerVPX(t *testing.T) {
    ctx := context.Background()
    m := VPX()
    defer m.Remove()
    err := m.Create()
    if err != nil {
        t.Fatal(err)
    }
    s := m.Service.NewServer()
    defer s.Close()
    c, err := govmomi.NewClient(ctx, s.URL, true)
    if err != nil {

func TestLicenseManagerESX(t *testing.T) {
    ctx := context.Background()
    m := ESX()

    defer m.Remove()
err := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
defer s.Close()

c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
_, err = lm.AssignmentManager(ctx)
if err == nil {
    t.Fatal("expected error")
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

if !reflect.DeepEqual(la[0], EvalLicense) {
    t.Fatal("invalid license")
}

func TestAddRemoveLicense(t *testing.T) {
    ctx := context.Background()
m := ESX()

defer m.Remove()

er := m.Create()
if err != nil {
    t.Fatal(err)
}

s := m.Service.NewServer()
defer s.Close()}
c, err := govmomi.NewClient(ctx, s.URL, true)
if err != nil {
    t.Fatal(err)
}

lm := license.NewManager(c.Client)
key := "00000-00000-00000-00000-11111"
labels := map[string]string{"key": "value"}

info, err := lm.Add(ctx, key, labels)
if err != nil {
    t.Fatal(err)
}
if info.LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, info.LicenseKey)
}
if len(info.Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(info.Labels))
}
if info.Labels[0].Key != "key" || info.Labels[0].Value != "value" {
    t.Fatalf("expect label to be {key:value}; got {\%s:\%s}\", info.Labels[0].Key, info.Labels[0].Value)
}

la, err := lm.List(ctx)
if err != nil {
    t.Fatal(err)
}
if len(la) != 2 {
    t.Fatal("no licenses")
}
if la[1].LicenseKey != key {
    t.Fatalf("expect info.LicenseKey equal to %q; got %q", key, la[1].LicenseKey)
}
if len(la[1].Labels) != len(labels) {
    t.Fatalf("expect len(info.Labels) equal to %d; got %d", len(labels), len(la[1].Labels))
}
if la[1].Labels[0].Key != "key" || la[1].Labels[0].Value != "value" {
t.Fatalf("expect label to be {key:value}; got {%s:%s}",
la[1].Labels[0].Key, la[1].Labels[0].Value)
}

erg = lm.Remove(ctx, key)
if err != nil {
    t.Fatal(err)
}

la, err = lm.List(ctx)
if err != nil {
    t.Fatal(err)
}

if len(la) != 1 {
    t.Fatal("no licenses")
}

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import (    
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    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
)

var featureUsage = "List licenses with given feature"

type ls struct {
*flags.ClientFlag
*flags.OutputFlag

feature string

func init() {
cli.Register("license.ls", &ls{ })
}

func (cmd *ls) Register(ctx context.Context, f *flag.FlagSet) {
  cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
  cmd.ClientFlag.Register(ctx, f)

  cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
  cmd.OutputFlag.Register(ctx, f)

  f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *ls) Process(ctx context.Context) error {
  if err := cmd.ClientFlag.Process(ctx); err != nil {
    return err
  }

  if err := cmd.OutputFlag.Process(ctx); err != nil {
    return err
  }
  return nil
}

func (cmd *ls) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }

  m := license.NewManager(client)
  result, err := m.List(ctx)
  if err != nil {
    return err
  }

  if cmd.feature != "" {
    result = result.WithFeature(cmd.feature)
  }

  return cmd.WriteResult(licenseOutput(result))
}
package license

import {
    "context"
    "flag"
    "fmt"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
}

type add struct {
    *flags.ClientFlag
    *flags.OutputFlag
}

func init() {
    cli.Register("license.add", &add{})
}

func (cmd *add) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)
}

func (cmd *add) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    // Additional code goes here...

    return nil
}
return err
}
if err := cmd.OutputFlag.Process(ctx); err != nil {
  return err
}
return nil

func (cmd *add) Usage() string {
  return "KEY..."
}

func (cmd *add) Run(ctx context.Context, f *flag.FlagSet) error {
  client, err := cmd.Client()
  if err != nil {
    return err
  }
  m := license.NewManager(client)

  // From the vSphere 5.5 documentation:
  //
  // To specify the edition type and any optional functions, use
  // updateLicense for ESX Server and addLicense follow by
  // LicenseAssingmentManager.updateAssignedLicense for VirtualCenter.
  //
  var addFunc func(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error)
  switch t := client.ServiceContent.About.ApiType; t {
    case "HostAgent":
      addFunc = m.Update
    case "VirtualCenter":
      addFunc = m.Add
    default:
      return fmt.Errorf("unsupported ApiType: %s", t)
  }

  result := make(licenseOutput, 0)
  for _, v := range f.Args() {
    license, err := addFunc(ctx, v, nil)
    if err != nil {
      return err
    }
    result = append(result, license)
  }

  return cmd.WriteResult(licenseOutput(result))
#!/usr/bin/env bats

load test_helper

# These tests should only run against a server running an evaluation license.
verify_evaluation() {
  if [ "$(govc license.ls -json | jq -r .[0].EditionKey)" != "eval" ]; then
    skip "requires evaluation license"
  fi
}

get_key() {
  jq ".[[]] | select(.LicenseKey == "$1")"
}

get_property() {
  jq -r ".Properties[] | select(.Key == "$1") | .Value"
}

get_label() {
  govc license.ls -json | jq ".[[]] | select(.LicenseKey == "$1") | .Labels[] | select(.Key == "$2") | .Value"
}

get_nlabel() {
  govc license.ls -json | jq ".[[]] | select(.LicenseKey == "$1") | .Labels[].Key" | wc -l
}

@test "license.add" {
  esx_env

  verify_evaluation

  run govc license.add -json 00000-00000-00000-00000-00001 00000-00000-00000-00000-00002
  assert_success

  # Expect to see an entry for both the first and the second key
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00001 <<<${output} | get_property diagnostic)"
  assert_equal "License is not valid for this product" "$(get_key 00000-00000-00000-00000-00002 <<<${output} | get_property diagnostic)"
}

@test "license.remove" {
  esx_env

  verify_evaluation
run govc license.remove -json 00000-00000-00000-00000-00001
assert_success
}

@test "license.ls" {
  vcsim_env

  verify_evaluation

  run govc license.ls -json
  assert_success

  # Expect the test instance to run in evaluation mode
  assert_equal "Evaluation Mode" "$(get_key 00000-00000-00000-00000-00000 <<<$output | jq -r ".Name")"
}

@test "license.decode" {
  esx_env

  verify_evaluation

  key=00000-00000-00000-00000-00000
  assert_equal "eval" $(govc license.decode $key | grep $key | awk '{print $2}')
}

@test "license.label.set" {
  vcsim_env

  key=00000-00000-00000-00000-00000

  assert_equal 0 "$(get_nlabel $key)"
  assert_equal "" "$(get_label $key foo)"

  run govc license.label.set $key foo bar
  assert_success

  assert_equal 1 "$(get_nlabel $key)"
  assert_equal bar "$(get_label $key foo)"

  run govc license.label.set $key biz baz
  assert_success
  run govc license.label.set $key foo bar2
  assert_success

  assert_equal 2 "$(get_nlabel $key)"
  assert_equal bar2 "$(get_label $key foo)"

  run govc license.label.set $key foo ""
assert_success

assert_equal 1 "$(get_nlabel $key)"
assert_equal "" "$(get_label $key foo)"
}
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package simulator

import (
    "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",}
type LicenseManager struct {
    mo.LicenseManager
}

func (m *LicenseManager) init(r *Registry) {
    m.Licenses = []types.LicenseManagerLicenseInfo{EvalLicense}
    if r.IsVPX() {
        am := Map.Put(&LicenseAssignmentManager{}).Reference()
        m.LicenseAssignmentManager = &am
    }
}

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
        }

        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
                }
            }
        }

        license.Labels = append(license.Labels, types.KeyValue{
            Key:    req.LabelKey,
            Value:  req.LabelValue,
        })}
func licenseInfo(key string, labels []types.KeyValue) types.LicenseManagerLicenseInfo {
    info := EvalLicense
    info.LicenseKey = key
    info.Labels = labels
    return info
}
return info
}
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*/

package license

import (
    "context"
    "flag"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type label struct {
    *flags.ClientFlag
}
func init() {
    cli.Register("license.label.set", &label{})
}

func (cmd *label) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
}

func (cmd *label) Usage() string {
    return "LICENSE KEY VAL"
}

func (cmd *label) Description() string {
    return `Set license labels.
Examples:
govc license.label.set 00000-00000-00000-00000-00000 team cnx # add/set label
govc license.label.set 00000-00000-00000-00000-00000 team "" # remove label
govc license.ls -json | jq ".[].select(.Labels[].Key == "team") .LicenseKey"
`}

func (cmd *label) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    if f.NArg() != 3 {
        return flag.ErrHelp
    }
    req := types.UpdateLicenseLabel{
        This:       m.Reference(),
        LicenseKey: f.Arg(0),
        LabelKey:   f.Arg(1),
        LabelValue: f.Arg(2),
    }
    _, err = methods.UpdateLicenseLabel(ctx, m.Client(), &req)
    return err
}

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/

package license

import (
    "context"
    "flag"

    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
type decode struct {
    *flags.ClientFlag
    *flags.OutputFlag
    feature string
}

func init() {
    cli.Register("license.decode", &decode{})
}

func (cmd *decode) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.feature, "feature", "", featureUsage)
}

func (cmd *decode) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    return nil
}

func (cmd *decode) Usage() string {
    return "KEY..."
}

func (cmd *decode) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    var result license.InfoList
    m := license.NewManager(client)
    for _, v := range f.Args() {
        license, err := m.Decode(ctx, v)
        if err != nil {

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*/
package license

import (
    "context"
    "strconv"
    "strings"

    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/mo"
    "github.com/vmware/govmomi/vim25/types"
)

type Manager struct {
    object.Common
}

func NewManager(c *vim25.Client) *Manager {
    m := Manager{
        object.NewCommon(c, *c.ServiceContent.LicenseManager),
    }
    return &m
}

func mapToKeyValueSlice(m map[string]string) []types.KeyValue {
    var r []types.KeyValue
    for k, v := range m {
        r = append(r, types.KeyValue{Key: k, Value: v})
    }
    return r
}

func (m Manager) Add(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.AddLicense{
        This:       m.Reference(),
        LicenseKey: key,
        Labels:     mapToKeyValueSlice(labels),
    }

    res, err := methods.AddLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
func (m Manager) Decode(ctx context.Context, key string) (types.LicenseManagerLicenseInfo, error) {
    req := types.DecodeLicense{
        This: m.Reference(),
        LicenseKey: key,
    }

    res, err := methods.DecodeLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) Remove(ctx context.Context, key string) error {
    req := types.RemoveLicense{
        This: m.Reference(),
        LicenseKey: key,
    }

    _, err := methods.RemoveLicense(ctx, m.Client(), &req)
    return err
}

func (m Manager) Update(ctx context.Context, key string, labels map[string]string) (types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateLicense{
        This: m.Reference(),
        LicenseKey: key,
        Labels: mapToKeyValuesSlice(labels),
    }

    res, err := methods.UpdateLicense(ctx, m.Client(), &req)
    if err != nil {
        return types.LicenseManagerLicenseInfo{}, err
    }

    return res.Returnval, nil
}

func (m Manager) List(ctx context.Context) (InfoList, error) {
    var mlm mo.LicenseManager

    err := m.Properties(ctx, m.Reference(), []string{"licenses"}, &mlm)
    if err != nil {
        return nil, err
    }

    return mlm.InfoList, nil
}
func (m Manager) AssignmentManager(ctx context.Context) (*AssignmentManager, error) {
    var mlm mo.LicenseManager
    err := m.Properties(ctx, m.Reference(), []string{"licenseAssignmentManager"}, &mlm)
    if err != nil {
        return nil, err
    }
    if mlm.LicenseAssignmentManager == nil {
        return nil, object.ErrNotSupported
    }
    am := AssignmentManager{
        object.NewCommon(m.Client(), *mlm.LicenseAssignmentManager),
    }
    return &am, nil
}

type licenseFeature struct {
    name  string
    level int
}

func parseLicenseFeature(feature string) *licenseFeature {
    lf := new(licenseFeature)
    f := strings.Split(feature, ":")
    lf.name = f[0]
    if len(f) > 1 {
        var err error
        lf.level, err = strconv.Atoi(f[1])
        if err != nil {
            lf.name = feature
        }
    }
    return lf
}

func HasFeature(license types.LicenseManagerLicenseInfo, key string) bool {
feature := parseLicenseFeature(key)

for _, p := range license.Properties {
    if p.Key != "feature" {
        continue
    }

    kv, ok := p.Value.(types.KeyValue)
    if !ok {
        continue
    }

    lf := parseLicenseFeature(kv.Key)
    if lf.name == feature.name && lf.level >= feature.level {
        return true
    }

    return false
}

InfoList provides helper methods for []types.LicenseManagerLicenseInfo

// InfoList provides helper methods for []types.LicenseManagerLicenseInfo
type InfoList []types.LicenseManagerLicenseInfo

func (l InfoList) WithFeature(key string) InfoList {
    var result InfoList

    for _, license := range l {
        if HasFeature(license, key) {
            result = append(result, license)
        }
    }

    return result
}

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*/

package license

import (   "context"   "flag"   "github.com/vmware/govmomi/govc/cli"   "github.com/vmware/govmomi/govc/flags"   "github.com/vmware/govmomi/license"
)

type remove struct {   *flags.ClientFlag   *flags.OutputFlag
}

func init() {
    cli.Register("license.remove", &remove{ })
}

func (cmd *remove) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)
    ctx = flags.NewOutputFlag(ctx)
    ctx.IsSet(f.Name())
    cmd.ClientFlag.Register(ctx, f)
    cmd.ClientFlag.Register(ctx, f)
cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
cmd.OutputFlag.Register(ctx, f)
}

func (cmd *remove) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }
    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }
    return nil
}

func (cmd *remove) Usage() string {
    return "KEY...
}

func (cmd *remove) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }
    m := license.NewManager(client)
    for _, v := range f.Args() {
        err = m.Remove(ctx, v)
        if err != nil {
            return err
        }
    }
    return nil
}
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    "context"
    "flag"
    "fmt"
    "io"
    "os"
    "text/tabwriter"
    "github.com/vmware/govmomi/govc/cli"
    "github.com/vmware/govmomi/govc/flags"
    "github.com/vmware/govmomi/license"
    "github.com/vmware/govmomi/vim25/types"
}

type assigned struct {
    *flags.ClientFlag
    *flags.OutputFlag

    id string
}

func init() {
    cli.Register("license.assigned.ls", &assigned{ })
}

func (cmd *assigned) Register(ctx context.Context, f *flag.FlagSet) {
    cmd.ClientFlag, ctx = flags.NewClientFlag(ctx)
    cmd.ClientFlag.Register(ctx, f)

    cmd.OutputFlag, ctx = flags.NewOutputFlag(ctx)
    cmd.OutputFlag.Register(ctx, f)

    f.StringVar(&cmd.id, "id", ", ", "Entity ID")
}

func (cmd *assigned) Process(ctx context.Context) error {
    if err := cmd.ClientFlag.Process(ctx); err != nil {
        return err
    }

    if err := cmd.OutputFlag.Process(ctx); err != nil {
        return err
    }

    return nil
}
func (cmd *assigned) Run(ctx context.Context, f *flag.FlagSet) error {
    client, err := cmd.Client()
    if err != nil {
        return err
    }

    m, err := license.NewManager(client).AssignmentManager(ctx)
    if err != nil {
        return err
    }

    assigned, err := m.QueryAssigned(ctx, cmd.id)
    if err != nil {
        return err
    }

    return cmd.WriteResult(assignedOutput(assigned))
}

type assignedOutput []types.LicenseAssignmentManagerLicenseAssignment

func (res assignedOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Id:	Scope:	Name:	License:
")
    for _, v := range res {
        fmt.Fprintf(tw, "%s", v.EntityId)
        fmt.Fprintf(tw, "%s", v.Scope)
        fmt.Fprintf(tw, "%s", v.EntityDisplayName)
        fmt.Fprintf(tw, "%s", v.AssignedLicense.LicenseKey)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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package license

import {
"fmt"
"io"
"os"
"text/tabwriter"
type licenseOutput []types.LicenseManagerLicenseInfo

func (res licenseOutput) Write(w io.Writer) error {
    tw := tabwriter.NewWriter(os.Stdout, 4, 0, 2, ' ', 0)
    fmt.Fprintf(tw, "Key\tEdition\tUsed\tTotal\n")
    for _, v := range res {
        fmt.Fprintf(tw, "%s\t", v.LicenseKey)
        fmt.Fprintf(tw, "%s\t", v.EditionKey)
        fmt.Fprintf(tw, "%d\t", v.Used)
        fmt.Fprintf(tw, "%d\t", v.Total)
        fmt.Fprintf(tw, "\n")
    }
    return tw.Flush()
}

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package license

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    "context"
    "github.com/vmware/govmomi/object"
    "github.com/vmware/govmomi/vim25/methods"
    "github.com/vmware/govmomi/vim25/types"
)

type AssignmentManager struct {
    object.Common
}

func (m AssignmentManager) QueryAssigned(ctx context.Context, id string) (types.LicenseAssignmentManagerLicenseAssignment, error) {
    req := types.QueryAssignedLicenses{
        This:     m.Reference(),
        EntityId: id,
    }

    res, err := methods.QueryAssignedLicenses(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return res, nil,
}
func (m AssignmentManager) Remove(ctx context.Context, id string) error {
    req := types.RemoveAssignedLicense{
        This:      m.Reference(),
        EntityId:  id,
    }

    _, err := methods.RemoveAssignedLicense(ctx, m.Client(), &req)

    return err
}

func (m AssignmentManager) Update(ctx context.Context, id string, key string, name string) (*types.LicenseManagerLicenseInfo, error) {
    req := types.UpdateAssignedLicense{
        This:        m.Reference(),
        Entity:      id,
        LicenseKey:  key,
        EntityDisplayName: name,
    }

    res, err := methods.UpdateAssignedLicense(ctx, m.Client(), &req)
    if err != nil {
        return nil, err
    }

    return &res.Returnval, nil
}

1.1437 jackson 2.10.3
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## Source Code

The project maintains the following source code repositories:
* https://github.com/eclipse-ee4j/glassfish-ha-api
* https://github.com/eclipse-ee4j/glassfish-logging-annotation-processor
* https://github.com/eclipse-ee4j/glassfish-shoal
* https://github.com/eclipse-ee4j/glassfish-cdi-porting-tck
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/collection/IntObjectMap.java
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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
* The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/CommonsLogger.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/internal/logging/Log4JLogger.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/codec/http/websocket/WebSocket13FrameEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/codec/http/websocket/WebSocket07FrameEncoder.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/IntegerRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/DefaultLastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisCodecUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/AbstractStringRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/ErrorRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisMessagePool.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/redis/RedisClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/LastBulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/BulkStringRedisContent.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/frame/server/HelloWorldHttp2Handler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/RedisCodecException.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/example/http2/helloworld/multiplex/server/Http2OrHttpHandler.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/Http2ConnectionPrefaceAndSettingsFrameWrittenEvent.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/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/example/ocsp/OcspServerExample.java
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  jar/io/netty/util/internal/logging/FormattingTuple.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4.1.49-final-sources-
  jar/io/netty/util/internal/logging/MessageFormatter.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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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/sctp/package-info.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/udt/nio/NioUdtByteRendezvousChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.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].
 */
* <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>
* <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 ChannelHandler` can pass events upstream or downstream, modify the pipeline dynamically, or store the information using `@link AttributeKey` which is specific to the handler.
* </p>
* <p>
* <h3>State management</h3>
* <p>
* 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
* }
* </pre>
* </p>
* <p>
* public class DataServerHandler extends `@link SimpleChannelInboundHandler`<Message> {
*     
*     <b>private boolean loggedIn;</b>
* 
*     <code>@Override</code>
*     public void channelRead0(<@link ChannelHandlerContext> ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             
*         }
*     }
* }
* </code>
* </p>
* </p>
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 a unauthenticated client can get
the confidential information:

// Create a new handler instance per channel.
// See [ChannelInitializer#initChannel(Channe]l].
public class DataServerInitializer extends ChannelInitializer<Channel> {
    @Override
    public void initChannel(Channel channel) {
        channel.pipeline().addLast("handler", new DataServerHandler());
    }
}

<h4>Using 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 AttributeKey's which is provided by
public interface Message {
    // your methods here
}

public class DataServerHandler extends SimpleChannelInboundHandler<Message> {
    private final AttributeKey<Boolean> auth = AttributeKey.valueOf("auth");

    @Override
    public void channelRead(ChannelHandlerContext ctx, Message message) {
        Attribute<Boolean> attr = ctx.attr(auth);
        if (message instanceof LoginMessage) {
            authenticate((LoginMessage) o);
            attr.set(true);
        }
    }
    ...

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

        @Override
        public void channelRead(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 (<b>Boolean.TRUE.equals(attr.get())</b>) {
*         ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*     } else {
*         fail();
*     }
* }
* ...  
* } </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>
* <p>
* 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/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/redis/InlineCommandRedisMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/util/ByteProcessorUtils.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/ScctpMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/ScctpChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/ScctpNotificationHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/ScctpServerChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/DefaultScctpChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/ScctpChannelConfig.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/channel/sctp/nio/NioScctpChannel.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/AddressResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameDecoder.java

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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsSection.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/resolver/dns/ShuffledDnsServerAddressStream.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
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jar/io/netty/handler/codec/dns/DatagramDnsQuery.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/UnsafeByteBufUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/concurrent/ThreadProperties.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsResponseCode.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/DefaultNameResolver.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsMessageUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/resolver/DnsNameResolverException.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/pool/ChannelHealthChecker.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/UnpooledDuplicatedByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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jar/io/netty/example/sctp/multihoming/SctpMultiHomingEchoClient.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/handler/codec/dns/DnsQuery.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/util/internal/PriorityQueueNode.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
jar/io/netty/buffer/PooledUnsafeHeapByteBuf.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-
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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>
* 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>
* lengthFieldOffset = 0
* lengthFieldLength = 2
* lengthAdjustment = 0
* initialBytesToStrip = 0 (= do not strip header)
* </pre>
*/

jar/io/netty/handler/codec/http/HttpUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/dns/DnsMessage.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java

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* BEFORE DECODE (14 bytes)  AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000C | "HELLO, WORLD" |      | 0x000C | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* </pre>
*
* ch3>2 bytes length field at offset 0, strip header</h3>
*
* Because we can get the length of the content by calling
* {@link ByteBuf#readableBytes()}, you might want to strip the length
* field by specifying <tt>initialBytesToStrip</tt>. In this example, we
* specified <tt>2</tt>, that is same with the length of the length field, to
* strip the first two bytes.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* lengthAdjustment    = 0
* <b>initialBytesToStrip</b> = <b>2</b> (= the length of the Length field)
* </pre>
*
* BEFORE DECODE (14 bytes)  AFTER DECODE (12 bytes)
* +--------+----------------+      +----------------+
* | Length | Actual Content |----->| Actual Content |
* | 0x000C | "HELLO, WORLD" |      | "HELLO, WORLD" |
* +--------+----------------+      +----------------+
* </pre>
*
* ch3>2 bytes length field at offset 0, do not strip header, the length field
* represents the length of the whole message</h3>
*
* In most cases, the length field represents the length of the message body
* only, as shown in the previous examples. However, in some protocols, the
* length field represents the length of the whole message, including the
* message header. In such a case, we specify a non-zero
* <tt>lengthAdjustment</tt>. Because the length value in this example message
* is always greater than the body length by <tt>2</tt>, we specify <tt>-2</tt>
* as <tt>lengthAdjustment</tt> for compensation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 2
* <b>lengthAdjustment</b> = <b>-2</b> (= the length of the Length field)
* initialBytesToStrip = 0
* </pre>
*
* BEFORE DECODE (14 bytes)  AFTER DECODE (14 bytes)
* +--------+----------------+      +--------+----------------+
* | Length | Actual Content |----->| Length | Actual Content |
* | 0x000E | "HELLO, WORLD" |      | 0x000E | "HELLO, WORLD" |
* +--------+----------------+      +--------+----------------+
* 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
* `</pre>`
* `</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
* `</pre>`
* `</h3>`

* This is a combination of all the examples above. There are the prepended
  header before the length field and the extra header after the length field.
  The prepended header affects the `<tt>lengthFieldOffset</tt>` and the extra
  header affects the `<tt>lengthAdjustment</tt>`. We also specified a non-zero
  `<tt>initialBytesToStrip</tt>` to strip the length field and the prepended
* header from the frame. If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>. *
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
* 
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* 
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
* strip the first header field and the length field, the length field
* represents the length of the whole message</h3>
* 
* Let's give another twist to the previous example. The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>. *
* Please note that we don't need to take the length of HDR2 into account
* because the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   = 1
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b>3</b>
* 
* BEFORE DECODE (16 bytes) AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
* 
*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHuffmanDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackUtil.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackHeaderField.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackEncoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackDynamicTable.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources-jar/io/netty/handler/codec/http2/HpackStaticTable.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="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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*/
// https://tools.ietf.org/html/rfc7540#section-8.1.2.2 makes a special exception for TE

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 */
jar/io/netty/resolver/dns/DnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-channel/SimpleUserEventChannelHandler.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-channel/socket.nio/NioChannelOption.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-channel/nio/NioChannelOption.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-channel/unix/Buffer.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-channel/socket/nio/NioChannelOption.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-resolver/dns/DnsAddressDecoder.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/resolver/dns/NoopAuthoritativeDnsServerCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/resolver/dns/Cache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslSession.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/DefaultOpenSslKeyMaterial.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/resolver/dns/DnsAddressResolveContext.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/resolver/dns/NoopDnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/resolver/dns/NoopDnsCnameCache.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/util/internal/SuppressJava6Requirement.java
* /opt/ws_local/PERMITS_SQL/1073709946_1598983444.54/0/netty-all-4-1-49-final-sources.jar/io/netty/channel/SimpleUserEventChannelHandler.java

1.1442 color 1.7.0
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1.1443 x-time-rate 0.0.0-20191024005414-555d28b269f0

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1.1444 perks 1.0.0

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

parser grammar GroovyParser;

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

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

@members {

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

        public GroovyParserRuleContext() {}

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

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

        @Override
        public void setMetaDataMap(Map<?, ?> metaDataMap) {
            this.metaDataMap = metaDataMap;
        }
    }
}
@Override
public int getSyntaxErrorSource() {
    return GroovySyntaxError.PARSER;
}

@Override
public int getErrorLine() {
    Token token = _input.LT(-1);
    if (null == token) {
        return -1;
    }
    return token.getLine();
}

@Override
public int getErrorColumn() {
    Token token = _input.LT(-1);
    if (null == token) {
        return -1;
    }
    return token.getCharPositionInLine() + 1 + token.getText().length();
}

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

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

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

typeDeclaration
    :  classOrInterfaceModifiersOpt classDeclaration ;

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

modifiersOpt
    :  (modifiers nls)?
    ;

modifiers
    :  modifier (nls modifier)*
    ;

classOrInterfaceModifiersOpt
    :  (classOrInterfaceModifiers
       /* Use `NL* /*` here for better performance, so DON'T replace it with `nls `*/
       )?
    ;

classOrInterfaceModifiers
    :  classOrInterfaceModifier (nls classOrInterfaceModifier)*
    ;

classOrInterfaceModifier
    :  annotation // class or interface
    |  m=( PUBLIC // class or interface
    |      PROTECTED // class or interface
    |      PRIVATE // class or interface
    |      STATIC // class or interface

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


variableModifiersOpt
   :  (variableModifiers nls)?
       ;

variableModifiers
   :  variableModifier (nls variableModifier)*
       ;

typeParameters
   :  LT nls typeParameter (COMMA nls typeParameter)* nls GT
       ;

typeParameter
   :  className (EXTENDS nls typeBound)?
       ;

typeBound
   :  type (BITAND nls type)*
       ;
typeList
  :  type (COMMA nls type)*

/**
 *  t  0: class; 1: interface; 2: enum; 3: annotation; 4: trait
 */

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

// t  see the comment of classDeclaration
classBody[int t]
  :  LBRACE nls
     (/* Only enum can have enum constants */
      [ 2 == $t ]?
       enumConstants (nls COMMA)? sep?
      | )
      (classBodyDeclaration[$t] (sep classBodyDeclaration[$t])*)? sep? RBRACE

enumConstants
  :  enumConstant (nls COMMA nls enumConstant)*

enumConstant
  :  annotationsOpt identifier arguments? anonymousInnerClassDeclaration[1]?

classBodyDeclaration[int t]
  :  (STATIC nls)? block
     |  memberDeclaration[$t]


// t  see the comment of classDeclaration
memberDeclaration[int t]
    : methodDeclaration[0, $t]
    | fieldDeclaration
    | modifiersOpt classDeclaration
    ;

/**
*  t   0: *class member* all kinds of method declaration AND constructor declaration,
*  1: normal method declaration, 2: abstract method declaration
*  3: normal method declaration OR abstract method declaration
*  ct  9: script, other see the comment of classDeclaration
*/
methodDeclaration[int t, int ct]
    : modifiersOpt typeParameters? returnType[$ct]?
        methodName formalParameters
        (DEFAULT nls elementValue
        | (nls THROWS nls qualifiedClassNameList)?
         (nls methodBody)?
        )?
    ;

methodName
    : identifier
    | stringLiteral
    ;

returnType[int ct]
    :
        standardType
    | VOID
    ;

fieldDeclaration
    : variableDeclaration[1]
    ;

variableDeclarators
    : variableDeclarator (COMMA nls variableDeclarator)*
    ;

variableDeclarator
    : variableDeclaratorId (nls ASSIGN nls variableInitializer)?
    ;

variableDeclaratorId
variableInitializer
  : enhancedStatementExpression
  
variableInitializers
  : variableInitializer (nls COMMA nls variableInitializer)* nls COMMA?
  
emptyDims
  : (annotationsOpt LBRACK RBRACK)+
  
emptyDimsOpt
  : emptyDims?
  
standardType
options { baseContext = type; }
  : annotationsOpt
    ( primitiveType
    | standardClassOrInterfaceType
    )
    emptyDimsOpt
    
type
  : annotationsOpt
    ( ( primitiveType
    | // !!! Error Alternative !!!
      VOID
    )
    | generalClassOrInterfaceType
    )
    emptyDimsOpt
    
classOrInterfaceType
  : ( qualifiedClassName
    | qualifiedStandardClassName
    |
generalClassOrInterfaceType
  options { baseContext = classOrInterfaceType; }
  : qualifiedClassName typeArguments?
  ;

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

primitiveType
  : BuiltInPrimitiveType
  ;

typeArguments
  : LT nls typeArgument (COMMA nls typeArgument)* nls GT
  ;
typeArgument
  : type
    | annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
  ;

annotatedQualifiedClassName
  : annotationsOpt qualifiedClassName
  ;

qualifiedClassNameList
  : annotatedQualifiedClassName (COMMA nls annotatedQualifiedClassName)*
  ;

typeArguments
  : LT nls typeArgument (COMMA nls typeArgument)* nls GT
  ;
typeArgument
  : type
    | annotationsOpt QUESTION ((EXTENDS | SUPER) nls type)?
  ;

formalParameters
  : LPAREN formalParameterList? rparen
  ;

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

thisFormalParameter
  : type THIS
  ;

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

qualifiedName
  : qualifiedNameElement (DOT qualifiedNameElement)*
  ;

/**
 * Java doesn't have the keywords 'as', 'in', 'def', 'trait' so we make some allowances
 * for them in package names for better integration with existing Java packages
 */
qualifiedNameElement
  : identifier
      | DEF
      | IN
      | AS
      | TRAIT
  ;

qualifiedNameElements
  : (qualifiedNameElement DOT)*
  ;

qualifiedClassName
  : qualifiedNameElements identifier
  ;

qualifiedStandardClassName
  : qualifiedNameElements className (DOT className)*
  ;

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

// GSTRING

gstring
  : GStringBegin gstringValue (GStringPart gstringValue)* GStringEnd
  ;
gstringValue
    : gstringPath
    | closure
    :

gstringPath
    : identifier GStringPathPart*
    :

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

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

lambdaParameters
options { baseContext = standardLambdaParameters; }
    : formalParameters

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

standardLambdaParameters
    : formalParameters
    | variableDeclaratorId
    :

lambdaBody
: block
| statementExpression
:

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

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

blockStatementsOpt
  : blockStatements?
  :

blockStatements
  : blockStatement (sep blockStatement)* sep?
  :

// ANNOTATIONS

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

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

elementValues
  : elementValuePairs
  | elementValue
  :

annotationName : qualifiedClassName ;

elementValuePairs
  : elementValuePair (COMMA elementValuePair)*
  :

elementValuePair
  : elementValuePairName nls ASSIGN nls elementValue
  :

elementValuePairName
  : identifier
  | keywords
  :

// TODO verify the potential performance issue because rule expression contains sub-rule assignments(https://github.com/antlr/grammars-v4/issues/215)
elementValue
  : elementValueArrayInitializer
  | annotation
  | expression

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elementValueArrayInitializer
   : LBRACK (elementValue (COMMA elementValue)* COMMA?)? RBRACK
   ;

// STATEMENTS / BLOCKS

block
   : LBRACE sep? blockStatementsOpt RBRACE
   ;

blockStatement
   : localVariableDeclaration
     | statement
     ;

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

/**
 * 0: local variable declaration; 1: field declaration
 */
variableDeclaration[int t]
   : modifiers nls
     ( type? variableDeclarators
       | typeNamePairs nls ASSIGN nls variableInitializer
     )
     | type variableDeclarators
     ;
typeNamePairs
   : LPAREN typeNamePair (COMMA typeNamePair)* rparen
   ;
typeNamePair
   : type? variableDeclaratorId
   ;
variableNames
   : LPAREN variableDeclaratorId (COMMA variableDeclaratorId)+ rparen
   ;
conditionalStatement
   : ifElseStatement
switchStatement
:
;

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

switchStatement
:
SWITCH expressionInPar nls LBRACE nls (switchBlockStatementGroup+ nls)? RBRACE
;

loopStatement
:
FOR LPAREN forControl rparen nls statement #forStmtAlt
| WHILE expressionInPar nls statement #whileStmtAlt
| DO nls statement nls WHILE expressionInPar #doWhileStmtAlt
;

continueStatement
:
CONTINUE
   identifier?
;

breakStatement
:
BREAK
   identifier?
;

tryCatchStatement
:
TRY resources? nls block
   (nls catchClause)*
   (nls finallyBlock)?
;

assertStatement
:
ASSERT ce=expression (nls (COLON | COMMA) nls me=expression)?
;

statement
:
block #blockStmtAlt
| conditionalStatement #conditionalStmtAlt
| loopStatement #loopStmtAlt
| tryCatchStatement #tryCatchStmtAlt
| SYNCHRONIZED expressionInPar nls block #synchronizedStmtAlt
| RETURN expression? #returnStmtAlt
| THROW expression #throwStmtAlt
| breakStatement #breakStmtAlt
| continueStatement #continueStmtAlt
| identifier COLON nls statement #labeledStmtAlt
enhancedForControl
  :  variableModifiersOpt type? variableDeclaratorId (COLON | IN) expression
 ;

classicalForControl
  :  forInit? SEMI expression? SEMI forUpdate?
 ;

forInit
  :  localVariableDeclaration
     |  expressionList[false]
 ;

forUpdate
  :  expressionList[false]
 ;

// EXPRESSIONS

castParExpression
  :  LPAREN type rparen
 ;

parExpression
  :  expressionInPar
 ;

expressionInPar
  :  LPAREN enhancedStatementExpression rparen
 ;

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

expressionListElement[boolean canSpread]
  :  MUL? expression
 ;

enhancedStatementExpression
  :  statementExpression
     |  standardLambdaExpression
 ;

statementExpression
  :  commandExpression #commandExprAlt
postfixExpression
  :  pathExpression op=(INC | DEC)?
  :

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

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

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

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

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

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

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

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

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

right=expression  #equalityExprAlt

// regex find and match (=~ and ==~) (level 8.5)
// jez: moved =~ closer to precedence of == etc, as...
// 'if (foo =~ "a.c")' is very close in intent to 'if (foo == "abc")'
| left=expression nls op=(REGEX_FIND | REGEX_MATCH) nls right=expression  #regexExprAlt

// bitwise or non-short-circuiting and (&)  (level 9)
| left=expression nls op=BITAND nls right=expression  #andExprAlt

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

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

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

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

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

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

| LSHIFT_ASSIGN |
| MOD_ASSIGN |
| POWER_ASSIGN |
| ELVIS_ASSIGN |

) nls

enhancedStatementExpression #assignmentExprAlt

;

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

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

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

  ;

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

  ;

commandArgument
  : commandPrimary
    // what follows is either a normal argument, parens,
    // an appended block, an index operation, or nothing
    // parens (a b already processed):
    // a b c() d e -> a(b).c().d(e)
    // a b c() d e -> a(b).c().call().d(e)
    // index (a b already processed):
    // a b c[x] d e -> a(b).c[x].d(e)
    // a b c[x][y] d e -> a(b).c[x][y].d(e)
    // block (a b already processed):
    // a b c {x} d e -> a(b).c({x}).d(e)
    //
    // parens/block completes method call
    // index makes method call to property get with index
//
( pathElement+
| argumentList
)?
;
/**
* A "path expression" is a name or other primary, possibly qualified by various
* forms of dot, and/or followed by various kinds of brackets.
* It can be used for value or assigned to, or else further qualified, indexed, or called.
* It is called a "path" because it looks like a linear path through a data structure.
* Examples: x.y, x?.y, x*.y, x.@y; x[], x[y], x[y,z]; x(), x(y), x(y,z); x{s}; a.b[n].c(x).d{s}
* (Compare to a C lvalue, or LeftHandSide in the JLS section 15.26.)
* General expressions are built up from path expressions, using operators like '+' and '='.
*
* t 0: primary, 1: namePart, 2: arguments, 3: closureOrLambdaExpression, 4: indexPropertyArgs, 5:
namedPropertyArgs,
*
6: non-static inner class creator
*/
pathExpression returns [int t]
: (
primary
|
// if 'static' followed by DOT, we can treat them as identifiers, e.g. static.unused = { -> }
{ DOT == _input.LT(2).getType() }?
STATIC
) (pathElement { $t = $pathElement.t; })*
;
pathElement returns [int t]
: nls
(
// AT: foo.@bar selects the field (or attribute), not property
(
( DOT
// The all-powerful dot.
| SPREAD_DOT
// Spread operator: x*.y === x?.collect{it.y}
| SAFE_DOT
// Optional-null operator: x?.y === (x==null)?null:x.y
| SAFE_CHAIN_DOT
// Optional-null chain operator: x??.y.z === x?.y?.z
) nls (AT | nonWildcardTypeArguments)?
|
METHOD_POINTER nls
// Method pointer operator: foo.&y == foo.metaClass.getMethodPointer(foo,
"y")
|
METHOD_REFERENCE nls // Method reference: System.out::println
)
namePart
{ $t = 1; }
|

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// Can always append a block, as foo{bar}
| closureOrLambdaExpression
|   { $t = 3; }
|)
| arguments
|   { $t = 2; }

// Element selection is always an option, too.
// In Groovy, the stuff between brackets is a general argument list,
// since the bracket operator is transformed into a method call.
| indexPropertyArgs
|   { $t = 4; }
| namedPropertyArgs
|   { $t = 5; }
;

/**
 * This is the grammar for what can follow a dot: x.a, x.@a, x.&a, x.'a', etc.
 */
namePart
: ( identifier
    // foo.'bar' is in all ways same as foo.bar, except that bar can have an arbitrary spelling
    | stringLiteral
    | dynamicMemberName

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

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

/**
 * If a dot is followed by a parenthesized or quoted expression, the member is computed dynamically,
 * and the member selection is done only at runtime. This forces a statically unchecked member access.
/*
dynamicMemberName
  : parExpression
  | gstring
  |
/** An expression may be followed by [...].
* Unlike Java, these brackets may contain a general argument list,
* which is passed to the array element operator, which can make of it what it wants.
* The brackets may also be empty, as in T[]. This is how Groovy names array types.
*/
indexPropertyArgs
  : QUESTION? LBRACK expressionList[true]? RBRACK
  ;

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

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

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

list
: LBRACK expressionList[true]? COMMA? RBRACK
;

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

mapEntryList
: mapEntry (COMMA mapEntry)*
;

namedPropertyArgList
options { baseContext = mapEntryList; }
: namedPropertyArg (COMMA namedPropertyArg)*
;

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

namedPropertyArg
options { baseContext = mapEntry; }
: namedPropertyArgLabel COLON nls expression
 | MUL COLON nls expression
;

namedArg
options { baseContext = mapEntry; }
: namedArgLabel COLON nls expression
 | MUL COLON nls expression
;
mapEntryLabel
  : keywords
    primary
    ;

namedPropertyArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
    | namedPropertyArgPrimary
    ;

namedArgLabel
options { baseContext = mapEntryLabel; }
  : keywords
    | namedArgPrimary
    ;

/**
 * t 0: general creation; 1: non-static inner class creation
 */
creator[int t]
  : createdName
    (   nls arguments anonymousInnerClassDeclaration[0]? 
        | dim+ (nls arrayInitializer)?
    )
    ;

dim
  : annotationsOpt LBRACK expression? RBRACK
  ;

arrayInitializer
  : LBRACE nls (variableInitializers nls)? RBRACE
  ;

/**
 * t 0: anonymous inner class; 1: anonymous enum
 */
anonymousInnerClassDeclaration[int t]
  : classBody[0]
  ;

createdName
  : annotationsOpt
    (   primitiveType 
        | qualifiedClassName typeArgumentsOrDiamond?
    )

nonWildcardTypeArguments
  : LT nls typeList nls GT
  :

typeArgumentsOrDiamond
  : LT GT
  | typeArguments
  :

arguments
  : LPAREN enhancedArgumentListInPar? COMMA? rparen
  :

argumentList
options { baseContext = enhancedArgumentListInPar; }
  : firstArgumentListElement
    ( COMMA nls
      argumentListElement
    )*  
  :

enhancedArgumentList
options { baseContext = enhancedArgumentListInPar; }
  : firstEnhancedArgumentListElement
    ( COMMA nls
      enhancedArgumentListElement
    )*  
  :

enhancedArgumentListInPar
  : enhancedArgumentListElement
    ( COMMA nls
      enhancedArgumentListElement
    )*  
  :

firstArgumentListElement
options { baseContext = enhancedArgumentListElement; }
  : expressionListElement[true]
    | namedArg
  :

argumentListElement
options { baseContext = enhancedArgumentListElement; }
  : expressionListElement[true]
    | namedPropertyArg
  :
firstEnhancedArgumentListElement
options { baseContext = enhancedArgumentListElement; }
  : expressionListElement[true]
  | standardLambdaExpression
  | namedArg

enhancedArgumentListElement
  : expressionListElement[true]
  | standardLambdaExpression
  | namedPropertyArg

stringLiteral
  : StringLiteral

 className
  : CapitalizedIdentifier

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

builtinType
  : BuiltInPrimitiveType
  | VOID

keywords
  : ABSTRACT
  | AS
  | ASSERT
  | BREAK
  | CASE
  | CATCH
  | CLASS
  | CONST
  | CONTINUE
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/metaclass/MissingMethodExecutionFailed.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/TimedInterruptibleASTTransformation.groovy

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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/AssemblySource.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/transform/ConditionalInterrupt.groovy
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/transform/FieldASTTransformation.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/tools/gse/StringSetMap.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/UnicodeEscapingReader.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/ConfigurationException.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/vmplugin/v7/IndyArrayAccess.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/messages/Message.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/stmt/ForStatement.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/vmplugin/v7/LineColumnReader.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/stmt/DoWhileStatement.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/classgen/asm/CompileStack.java
No license file was found, but licenses were detected in source scan.

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

Found in path(s):
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/META-INF/services/org.codehaus.groovy.transform.ASTTransformation
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* Based on an original grammar released in the PUBLIC DOMAIN

Found in path(s):
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/groovy.antlr
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/java/java.antlr
No license file was found, but licenses were detected in source scan.

/** JSR-241 Groovy Recognizer.
 *
* Run 'java Main [-showtree] directory-full-of-groovy-files'
* 
* [The -showtree option pops up a Swing frame that shows
* the AST constructed from the parser.]
* 
* Contributing authors:
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* Alex Popescu the.mindstorm@gmail.com
* Martin Kempf mkempf@hsr.ch
* Reto Kleeb rklee@hsr.ch
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
* fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
* added tree construction
* fixed definition of WS, comments for mac, pc, unix newlines
* added unary plus
* Version 1.11 (Nov 20, 1998)
* Added "shutup" option to turn off last ambig warning.
* Fixed inner class def to allow named class defs as statements
* synchronized requires compound not simple statement
* add [] after builtInType DOT class in primaryExpression
* "const" is reserved but not valid. removed from modifiers
* Version 1.12 (Feb 2, 1999)
* Changed LITERAL_xxx to xxx in tree grammar.
* Updated java.g to use tokens [...] now for 2.6.0 (new feature).
* Version 1.13 (Apr 23, 1999)
* Didn't have (stat)? for else clause in tree parser.
* Didn't gen ASTs for interface extends. Updated tree parser too.
* Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
* Allowed final/abstract on local classes.
* Removed local interfaces from methods
* Put instanceof precedence where it belongs...in relationalExpr
* It also had expr not type as arg; fixed it.
* Missing ! on SEMI in classBlock
* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
* fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
* Screwed up rule with instanceof in it. :( Fixed.
* Tree parser didn't like (expr).something; fixed.
* Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
* Extending an interface built a wacky tree: had extra EXTENDS.
* Tree grammar didn't allow multiple superinterfaces.
* Tree grammar didn't allow empty var initializer: {}
* Version 1.17 (October 12, 1999)
* ESC lexer rule allowed 399 max not 377 max.
* java.tree.g didn't handle the expression of synchronized
* statements.
* Version 1.18 (August 12, 2001)
* Terence updated to Java 2 Version 1.3 by
* observing/combing work of Allan Jacobs and Steve
* Messick. Handles 1.3 src. Summary:
* o primary didn't include boolean.class kind of thing
* o constructor calls parsed explicitly now:
see explicitConstructorInvocation
o add strictfp modifier
o missing objBlock after new expression in tree grammar
o merged local class definition alternatives, moved after declaration
o fixed problem with ClassName.super.field
o reordered some alternatives to make things more efficient
o long and double constants were not differentiated from int/float
o whitespace rule was inefficient: matched only one char
o add an examples directory with some nasty 1.3 cases
o made Main.java use buffered IO and a Reader for Unicode support
o supports UNICODE?
  Using Unicode charVocabulary makes code file big, but only
  in the bitsets at the end. I need to make ANTLR generate
  unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
  Terence added in nice fixes by John Pybus concerning floating
  constants and problems with super() calls. John did a nice
  reorg of the primary/postfix expression stuff to read better
  and makes f.g.super() parse properly (it was METHOD_CALL not
  a SUPER_CTOR_CALL). Also:
  o "finally" clause was a root...made it a child of "try"
  o Added stuff for asserts too for Java 1.4, but *commented out*
    as it is not backward compatible.

* Version 1.20 (October 27, 2002)

  Terence ended up reorging John Pybus' stuff to
  remove some nondeterminisms and some syntactic predicates.
  Note that the grammar is stricter now; e.g., this(...) must
  be the first statement.
  o Trinary ?: operator wasn't working as array name:
    (isBig ? bigDigits : digits)[i];
  o Checked parser/tree parser on source for
    Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, anlr 2.7.2a4,
    and the 110k-line jGuru server source.

* Version 1.21 (October 17, 2003)
  Fixed lots of problems including:
  o Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
  o He found a problem/fix with floating point that start with 0
  o Ray also fixed problem that (int.class) was not recognized.
  o Thorsten van Ellen noticed that 'n are allowed incorrectly in strings.
  o TJP fixed CHAR_LITERAL analogously.

Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
Notes:
  - We only allow the "extends" keyword and not the "implements" keyword, since that's what JSR14 seems to imply.
  - Thanks to Monty Zukowski for his help on the antlr-interest mail list.
  - Thanks to Alan Eliasen for testing the grammar over his Fink source base

Version 1.22 (July, 2004)
Changes by Michael Studman to support Java 1.5 language extensions
Notes:
  - Added support for annotations types
  - Finished off Matt Quail's generics enhancements to support bound type arguments
  - Added support for new for statement syntax
  - Added support for static import syntax
  - Added support for enum types
  - Tested against JDK 1.5 source base and source base of jdigraph project
  - Thanks to Matt Quail for doing the hard part by doing most of the generics work

Version 1.22.1 (July 28, 2004)
Bug/omission fixes for Java 1.5 language support
  - Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
  - Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
  - Enabled type parameters on constructors, annotations on enum constants and package definitions
  - Fixed problems when parsing if ((char.class.equals(c))) {} - solution by Matt Quail at Cenqua

Version 1.22.2 (July 28, 2004)
Slight refactoring of Java 1.5 language support
  - Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
  - Fixed bug where type parameter was not included in generic constructor's branch of AST

Version 1.22.3 (August 26, 2004)
Bug fixes as identified by Michael Stahl; clean up of tabs/spaces and other refactorings
  - Fixed typeParameters omission in identPrimary and newStatement
  - Replaced GT reconcilliation code with simple semantic predicate
  - Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
  - Refactored typeDefinition production and field productions to reduce duplication

Version 1.22.4 (October 21, 2004)
Small bux fixes
  - Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
  - Added typeArguments to postfixExpression productions for anonymous inner class super
* constructor invocation, e.g. new Outer().<String>super()
* o Fixed bug in array declarations identified by Geoff Roy
*
* Version 1.22.4.g.1
  * o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
  * and have applied the groovy.diff from java.g (1.22) by John Rose
  * back onto the new root (1.22.4) - Jeremy Rayner (Jan 2005)
*
* Version 1.22.4.g.2
  * o mkempf, rkleeb, Dec 2007
  * o fixed various rules so that they call the correct Create Method
  * to make sure that the line information are correct
  *
* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-
  jar/org/codehaus/groovy/antlr/parser/GroovyRecognizer.java
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/
* This file is adapted from the Antlr4 Java grammar which has the following license
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/**
 * The Groovy grammar is based on the official grammar for Java:
 * https://github.com/antlr/grammars-v4/blob/master/java/Java.g4
 * /
lexer grammar GroovyLexer;

options {
    superClass = AbstractLexer;
}

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

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

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

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

super.emit(token);
}

private static final int[] REGEX_CHECK_ARRAY =
    IntStream.of(
        Identifier, CapitalizedIdentifier, NullLiteral, BooleanLiteral, THIS, RPAREN, RBRACK, RBRACE,
        IntegerLiteral, FloatingPointLiteral, StringLiteral, GStringEnd, INC, DEC
    ).sorted().toArray();

private boolean isRegexAllowed() {
    if (Arrays.binarySearch(REGEX_CHECK_ARRAY, this.lastTokenType) >= 0) {
        return false;
    }

    return true;
}

/**
 * just a hook, which will be overrided by GroovyLangLexer
 */
protected void rollbackOneChar() {}
return line;
}

public int getColumn() {
    return column;
}

@Override
public int hashCode() {
    return (int) (text.hashCode() * line + column);
}

@Override
public boolean equals(Object obj) {
    if (!(obj instanceof Paren)) {
        return false;
    }
    Paren other = (Paren) obj;
    return this.text.equals(other.text) && (this.line == other.line && this.column == other.column);
}
}

protected void enterParenCallback(String text) {}

protected void exitParenCallback(String text) {}

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

private void enterParen() {
    String text = getText();
    enterParenCallback(text);
    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
}

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

private boolean isInsideParens() {
    Paren paren = parenStack.peek();
    if (null == paren) return;
    parenStack.pop();
    return true;
}

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

private void enterParen() {
    String text = getText();
    enterParenCallback(text);
    parenStack.push(new Paren(text, this.lastTokenType, getLine(), getCharPositionInLine()));
}

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

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

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

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

    this.setChannel(Token.HIDDEN_CHANNEL);
}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

// character in the slashy string. e.g. /a/
fragment SlashyStringCharacter
  : SlashEscape
  | Dollar { !isFollowedByJavaLetterInGString(_input) }?
  | ~[/$\u0000]
  ;

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

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

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

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

ABSTRACT : 'abstract';
ASSERT : 'assert';
fragment
 BOOLEAN : 'boolean';

 BREAK : 'break';

fragment
 BYTE : 'byte';

 CASE : 'case';
 CATCH : 'catch';

fragment
 CHAR : 'char';

 CLASS : 'class';
 CONST : 'const';
 CONTINUE : 'continue';
 DEFAULT : 'default';
 DO : 'do';

fragment
 DOUBLE : 'double';

 ELSE : 'else';
 ENUM : 'enum';
 EXTENDS : 'extends';
 FINAL : 'final';
 FINALLY : 'finally';

fragment
 FLOAT : 'float';

 FOR : 'for';
 IF : 'if';
 GOTO : 'goto';
 IMPLEMENTS : 'implements';
 IMPORT : 'import';
 INSTANCEOF : 'instanceof';

fragment
 INT : 'int';

 INTERFACE : 'interface';

fragment
 LONG : 'long';
// 3.10.1 Integer Literals

IntegerLiteral
  : ( DecimalIntegerLiteral
    | HexIntegerLiteral
    | OctalIntegerLiteral
    | BinaryIntegerLiteral )
    (Underscore { require(false, "Number ending with underscores is invalid", -1, true); })? 
    // !!! Error Alternative !!!
    | Zero ([0-9] { invalidDigitCount++; })+ { require(false, "Invalid octal number", -(invalidDigitCount + 1), true); }
} IntegerTypeSuffix?
  :

fragment
Zero
  : '0'
  :

fragment
DecimalIntegerLiteral
: DecimalNumeral IntegerTypeSuffix?

fragment
HexIntegerLiteral
 : HexNumeral IntegerTypeSuffix?

fragment
OctalIntegerLiteral
 : OctalNumeral IntegerTypeSuffix?

fragment
BinaryIntegerLiteral
 : BinaryNumeral IntegerTypeSuffix?

fragment
IntegerTypeSuffix
 : [lLiIgG]

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

fragment
Digits
 : Digit (DigitOrUnderscore* Digit)?

fragment
Digit
 : Zero
 | NonZeroDigit

fragment
NonZeroDigit
 : [1-9]

fragment
DigitOrUnderscore
 : Digit
// 3.10.2 Floating-Point Literals

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

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

fragment
ExponentPart
  : ExponentIndicator SignedInteger

fragment
OctalDigitOrUnderscore
  : OctalDigit
    | Underscore

fragment
BinaryNumeral
  : Zero [bB] BinaryDigits

fragment
BinaryDigits
  : BinaryDigit (BinaryDigitOrUnderscore* BinaryDigit)?

fragment
BinaryDigitOrUnderscore
  : BinaryDigit
    | Underscore
fragment ExponentIndicator
  : [eE]
  ;

fragment SignedInteger
  : Sign? Digits
  ;

fragment Sign
  : [+-]
  ;

fragment FloatTypeSuffix
  : [fFdDgG]
  ;

fragment HexadecimalFloatingPointLiteral
  : HexSignificand BinaryExponent FloatTypeSuffix?
  ;

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

fragment BinaryExponent
  : BinaryExponentIndicator SignedInteger
  ;

fragment BinaryExponentIndicator
  : [pP]
  ;

fragment Dot
  : '.
  ;

// 3.10.3 Boolean Literals

BooleanLiteral
// 3.10.6 Escape Sequences for Character and String Literals

fragment EscapeSequence
   : Backslash [btnfrs]\n   | OctalEscape
   | UnicodeEscape
   | DollarEscape
   | LineEscape
   ;

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

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

fragment ZeroToThree
   : [0-3]
   ;

// Groovy Escape Sequences

fragment DollarEscape
   : Backslash Dollar
   ;

fragment LineEscape
   : Backslash LineTerminator
   ;

fragment
LineTerminator
  : '\r'? '\n' | '\r'

fragment
SlashEscape
  : Backslash Slash

fragment
Backslash
  : '\'

fragment
Slash
  : '/'

fragment
Dollar
  : '$'

fragment
GStringQuotationMark
  : '""

fragment
SqStringQuotationMark
  : '\'

fragment
TdqStringQuotationMark
  : '"""

fragment
TsqStringQuotationMark
  : '""""

fragment
DollarSlashyGStringQuotationMarkBegin
  : '$/'
fragment
DollarSlashyGStringQuotationMarkEnd
   : '/$'
   :

fragment
DollarSlashEscape
   : '$/$'
   :

fragment
DollarDollarEscape
   : '$$'
   :

// 3.10.7 The Null Literal
NullLiteral
   : 'null'
   :

// Groovy Operators

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

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

// 3.11 Separators

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

// 3.12 Operators
ASSIGN : '=';
GT : '>';  
LT : '<';
NOT : '!';
BITNOT : '~';
QUESTION : '?';
COLON : ':';
EQUAL : '==';
LE : '<=';
GE : '>=';
NOTEQUAL : '!=';
AND : '&&';
OR : '||';
INC : '++';
DEC : '--';
ADD : '+';
SUB : '-';
MUL : '*';
DIV : '/';
BITAND : '&';
BITOR : '|';
XOR : '^';
MOD : '%';
ADD_ASSIGN : '+=';
SUB_ASSIGN : '-=';
MUL_ASSIGN : '*=';
DIV_ASSIGN : '/=';
AND_ASSIGN : '&=';
OR_ASSIGN : '|=';
XOR_ASSIGN : '^=';
MOD_ASSIGN : '%=';
LSHIFT_ASSIGN : '<<=';

RSHIFT_ASSIGN : '>>=';
URSHIFT_ASSIGN : '>>==';
ELVIS_ASSIGN : '?=';

// 3.8 Identifiers (must appear after all keywords in the grammar)
CapitalizedIdentifier
  : JavaLetter {Character.isUpperCase(_input.LA(-1))}? JavaLetterOrDigit*
  ;

Identifier
  : JavaLetter JavaLetterOrDigit*
  ;

fragment
IdentifierInGString
  : JavaLetterInGString JavaLetterOrDigitInGString*
  ;

fragment
JavaLetter
  : [a-zA-Z$_.] // these are the "java letters" below 0x7F
    | // covers all characters above 0x7F which are not a surrogate
    ~[\u0000-\u007F\u0D80-\uDBFF] // covers all characters above 0x7F which are not a surrogate
    { isJavaIdentifierStartAndNotIdentifierIgnorable(_input.LA(-1)) }?
    | // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
    [\uDB80-\uDBFF] [\uDC00-\uDCFF]
    { Character.isJavaIdentifierStart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
    ;

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

fragment
JavaLetterOrDigit
  : [a-zA-Z0-9$__.] // these are the "java letters or digits" below 0x7F
    | // covers all characters above 0x7F which are not a surrogate
    ~[\u0000-\u007F\u0D80-\uDBFF] // covers all characters above 0x7F which are not a surrogate
    { isJavaIdentifierPartAndNotIdentifierIgnorable(_input.LA(-1)) }?
    | // covers UTF-16 surrogate pairs encodings for U+10000 to U+10FFFF
    [\uDB80-\uDBFF] [\uDC00-\uDCFF]
    { Character.isJavaIdentifierPart(Character.toCodePoint((char) _input.LA(-2), (char) _input.LA(-1))) }?
    ;

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

fragment

ShCommand
: ~[\u0000-\uFFFF]*

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

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

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

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

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

// Single-line comments
SL_COMMENT
: '/\-'.*?'/\-.*?'/  { this.ignoreTokenInsideParens(); } -> type(NL)

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

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

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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EntryWeigher.java

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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/LinkedDeque.java

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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/io/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/ast/expr/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/tools/javac/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/typehandling/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/syntax/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/io/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/vmplugin/v5/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/lang/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/treewalker/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/reflection/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/inspect/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/control/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/runtime/metclass/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/groovy/util/package.html
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/treewalker/package.html

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

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

Found in path(s):
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/META-INF/groovy/org.codehaus.groovy/source/Extensions
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* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3.0-7-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/ConcurrentLinkedHashMap.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3.0-7-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weigher.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3.0-7-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/EvictionListener.java
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3.0-7-sources-jar/org/apache/groovy/util/concurrent/concurrentlinkedhashmap/Weighers.java

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/*** Java 1.5 Recognizer
 *
 * Run 'java Main [-showtree] directory-full-of-java-files'
 *
 * [The -showtree option pops up a Swing frame that shows
 * the AST constructed from the parser.]
 *
 * Run 'java Main <directory full of java files>'
 *
 * Contributing authors:
 * Jeremy Rayner groovy@ross-rayner.com
 * John Mitchell johnm@non.net
 * Terence Parr parrt@magelang.com
 * John Lilley jililey@empathy.com
 * Scott Stanchfield stanchfield@magelang.com
 * Markus Mohnen mohnen@informatik.rwth-aachen.de
 * Peter Williams pete.williams@sun.com
 * Allan Jacobs allan.jacobs@eng.sun.com
 * Steve Messick messick@redhills.com
*John Pybus john@pybus.org
*
* Version 1.00 December 9, 1997 -- initial release
* Version 1.01 December 10, 1997
* fixed bug in octal def (0..7 not 0..8)
* Version 1.10 August 1998 (parrt)
* added tree construction
* fixed definition of WS,comments for mac,pc,unix newlines
* added unary plus
* Version 1.11 (Nov 20, 1998)
* Added "shutup" option to turn off last ambig warning.
* Fixed inner class def to allow named class defs as statements
* synchronized requires compound not simple statement
* add [] after builtInType DOT class in primaryExpression
* "const" is reserved but not valid..removed from modifiers
* Version 1.12 (Feb 2, 1999)
* Changed LITERAL_xxx to xxx in tree grammar.
* Updated java.g to use tokens {...} now for 2.6.0 (new feature).
*
* Version 1.13 (Apr 23, 1999)
* Didn't have (stat) for else clause in tree parser.
* Didn't gen ASTs for interface extends. Updated tree parser too.
* Updated to 2.6.0.
* Version 1.14 (Jun 20, 1999)
* Allowed final/abstract on local classes.
* Removed local interfaces from methods
* Put instanceof precedence where it belongs...in relationalExpr
* It also had expr not type as arg; fixed it.
* Missing ! on SEMI in classBlock
* fixed: (expr) + "string" was parsed incorrectly (+ as unary plus).
* fixed: didn't like Object[].class in parser or tree parser
* Version 1.15 (Jun 26, 1999)
* Screwed up rule with instanceof in it. :( Fixed.
* Tree parser didn't like (expr).something; fixed.
* Allowed multiple inheritance in tree grammar. oops.
* Version 1.16 (August 22, 1999)
* Extending an interface built a wacky tree: had extra EXTENDS.
* Tree grammar didn't allow multiple superinterfaces.
* Tree grammar didn't allow empty var initializer: {} 
* Version 1.17 (October 12, 1999)
* ESC lexer rule allowed 399 max not 377 max.
* java.tree.g didn't handle the expression of synchronized
* statements.
* Version 1.18 (August 12, 2001)
* Terence updated to Java 2 Version 1.3 by
* observing/combining work of Allan Jacobs and Steve
* Messick. Handles 1.3 src. Summary:
* o primary didn't include boolean.class kind of thing
* o constructor calls parsed explicitly now:
* o add strictfp modifier
* o missing objBlock after new expression in tree grammar
* o merged local class definition alternatives, moved after declaration
* o fixed problem with ClassName.super.field
* o reordered some alternatives to make things more efficient
* o long and double constants were not differentiated from int/float
* o whitespace rule was inefficient: matched only one char
* o add an examples directory with some nasty 1.3 cases
* o made Main.java use buffered IO and a Reader for Unicode support
* o supports UNICODE?
* Using Unicode charVocabulary makes code file big, but only
* in the bitsets at the end. I need to make ANTLR generate
* unicode bitsets more efficiently.
* Version 1.19 (April 25, 2002)
* Terence added in nice fixes by John Pybus concerning floating
* constants and problems with super() calls. John did a nice
* reorg of the primary/postfix expression stuff to read better
* and makes f.g.super() parse properly (it was METHOD_CALL not
* a SUPER_CTOR_CALL). Also:
* o "finally" clause was a root...made it a child of "try"
* o Added stuff for asserts too for Java 1.4, but *commented out*
* as it is not backward compatible.
* Version 1.20 (October 27, 2002)
* Terence ended up reorging John Pybus' stuff to
* remove some nondeterminisms and some syntactic predicates.
* Note that the grammar is stricter now; e.g., this(...) must
* be the first statement.
* Ternary ?: operator wasn't working as array name:
* (isBig ? bigDigits : digits)[i];
* Checked parser/tree parser on source for
* Resin-2.0.5, jive-2.1.1, jdk 1.3.1, Lucene, antlr 2.7.2a4,
* and the 110k-line jGuru server source.
* Version 1.21 (October 17, 2003)
* Fixed lots of problems including:
* Ray Waldin: add typeDefinition to interfaceBlock in java.tree.g
* He found a problem/fix with floating point that start with 0
* Ray also fixed problem that (int.class) was not recognized.
* Thorsten van Ellen noticed that \n are allowed incorrectly in strings.
* TJP fixed CHAR_LITERAL analogously.
  * Changes by Matt Quail to support generics (as per JDK1.5/JSR14)
  * Notes:
  * o We only allow the "extends" keyword and not the "implements"
    keyword, since that's what JSR14 seems to imply.
  * o Thanks to Monty Zukowski for his help on the antlr-interest
    *mail list.
  * o Thanks to Alan Eliasen for testing the grammar over his
    Fink source base
*
* Version 1.22 (July, 2004)
  * Changes by Michael Studman to support Java 1.5 language extensions
  * Notes:
  * o Added support for annotations types
  * o Finished off Matt Quail's generics enhancements to support bound type arguments
  * o Added support for new for statement syntax
  * o Added support for static import syntax
  * o Added support for enum types
  * o Tested against JDK 1.5 source base and source base of jdigraph project
  * o Thanks to Matt Quail for doing the hard part by doing most of the generics work
*
* Version 1.22.1 (July 28, 2004)
  * Bug/omission fixes for Java 1.5 language support
  * o Fixed tree structure bug with classOrInterface - thanks to Pieter Vangorpto for spotting this
  * o Fixed bug where incorrect handling of SR and BSR tokens would cause type parameters to be recognised as type arguments.
  * o Enabled type parameters on constructors, annotations on enum constants
  * o Fixed problems when parsing if ((char.class.equals(c))) [] - solution by Matt Quail at Cenqua
*
* Version 1.22.2 (July 28, 2004)
  * Slight refactoring of Java 1.5 language support
  * o Refactored for/"foreach" productions so that original literal "for" literal is still used but the for sub-clauses vary by token type
  * o Fixed bug where type parameter was not included in generic constructor's branch of AST
*
* Version 1.22.3 (August 26, 2004)
  * Bug fixes as identified by Michael Stahl; clean up of tabs/spaces
  * o Fixed typeParameters omission in identPrimary and newStatement
  * o Replaced GT reconciliation code with simple semantic predicate
  * o Adapted enum/assert keyword checking support from Michael Stahl's java15 grammar
  * o Refactored typeDefinition production and field productions to reduce duplication
*
* Version 1.22.4 (October 21, 2004)
  * Small bux fixes
  * o Added typeArguments to explicitConstructorInvocation, e.g. new <String>MyParameterised()
* Added typeArguments to postfixExpression productions for anonymous inner class super constructor invocation, e.g. new Outer().<String>super()
* Fixed bug in array declarations identified by Geoff Roy

* Version 1.22.4.j.1
  Changes by Jeremy Rayner to support java2groovy tool
  o I have taken java.g for Java1.5 from Michael Studman (1.22.4)
  and have made some changes to enable use by java2groovy tool (Jan 2007)

* Based on an original grammar released in the PUBLIC DOMAIN
*/

Found in path(s):
* /opt/cola/permits/1122902816_1610587956.4/0/groovy-3-0-7-sources-jar/org/codehaus/groovy/antlr/java/JavaRecognizer.java

1.1447 ehcache-impl 3.8.1

1.1447.1 Available under license:
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* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/internal/spi/resilience/DefaultResilienceStrategyProviderFactory.java
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* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/config/events/CacheEventDispatcherImpl.java
* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/ehcacheimplOffHeapValueHolder.java
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* /opt/cola/permits/1135872533_1613620997.49/0/ehcache-impl-3-8-1-sources-1-jar/org/ehcache/impl/internal/concurrent/ThreadLocalRandomUtil.java
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1.1448 doublestar 1.1.5
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1.1449 distlib 0.3.1

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A. HISTORY OF THE SOFTWARE

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

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

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

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

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(2) 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
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distlib has started off using some of the code from distutil2.

If you're making a patch, please add your name below in alphabetical order, and welcome into the Fellowship of the Packaging!

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tomb - support for clean goroutine termination in Go.

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1.1459 felixge-httpsnoop 1.0.1

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1.1461 netty-transport-native-epoll

4.1.50.Final

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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.
 */

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannelConfig.java

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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollMode.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollEventArray.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/Epoll.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/package-info.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollChannelOption.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/AbstractEpollChannel.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/EpollServerChannel.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
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* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
jar/netty_epoll_linuxsocket.c
* /opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-
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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="http://linux.die.net/man/7/tcp">TCP_QUICKACK</a>
 * for more details.
 */

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  */opt/ws_local/PERMITS_SQL/1068253685_1594325782.24/0/netty-transport-native-epoll-4-1-50-final-sources-jar/netty_epoll_native.c

1.1462 zlib 1.2.11 r3

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1.1463 mpdecimal 2.5.1-r1

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1.1475 cloud-google-com-go 0.45.1

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generated 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([]string{"gl-go", versionGo()}, keyval...) 
    kv = append(kv, "gapic", 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 = 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.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
    }

    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.LicenseCode{}

    if err := unm.Unmarshal(buf, rsp); err != nil {
        return nil, maybeUnknownEnum(err)
    }
    return rsp, nil
}
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
}
deferal 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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// Code generated by protoc-gen-go_gapic. 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.
    }
    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.
}
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.
}
// TODO: Use resp.
//_ = resp
}

func ExampleLicensesClient_Insert() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
// TODO: Handle error.
}
// TODO: Use resp.
//_ = resp
}

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.
}
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.
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
}

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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

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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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
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 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.TestIamPermissionsResponse, 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 = 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
}
defers 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 *compute.GetLicenseRequest, opts ...gax.CallOption) (*compute.License, error) {
    var requestUrl string
    url, err := url.Parse(c.endpoint)
    if err != nil {
        return nil, err
    }
    url.Path = requestUrl
    if err != nil {
        return nil, err
    }
    defer httpReq.Body.Close()
    if err != nil {
        return nil, err
    }
    defer httpRes.Body.Close()
    if err = googleapi.CheckResponse(httpRes); err != nil {
        return nil, err
    }
    buf, err := ioutil.ReadAll(httpRes.Body)
    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"}

    if err != nil {
        return nil, err
    }
    defer httpRes.Body.Close()
    if err = googleapi.CheckResponse(httpRes); err != nil {
        return nil, err
    }
    buf, err := ioutil.ReadAll(httpRes.Body)
    if err != nil {
        return nil, err
    }
    // Handle the response
    var license compute.License
    err = protojson.Unmarshal(buf, &license)
    if err != nil {
        return nil, err
    }
    return &license, 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 = 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 := &compute pb.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 *compute pb.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 {
        httpReq.Header[k] = v
    }
    httpReq.Header["Content-Type"] = []string{"application/json"}
    httpRsp, err := c.httpClient.Do(httpReq)
    if err != nil {
        return nil, err
    }
    return &Operation{
        SelfLink: httpRsp.Header.Get("Location")
    }, nil
}
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 := &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, _ := url.Parse(c.endpoint)
                params := url.Values{}
                if req != nil && req.Filter != nil {
                }
                defer httpRsp.Body.Close()
                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 := &computepb.Operation{
                    if err := unm.Unmarshal(buf, rsp); err != nil {
                        return nil, maybeUnknownEnum(err)
                    }
                    op := &Operation{proto: rsp}
                    return op, err
                }
            }
            return it.InternalFetch(pageSize, pageToken)
        }
    }
    return &LicenseIterator{
        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
}

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
}
baseUrl, _ := url.Parse(c.endpoint)
req.GetResource())
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 {

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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
    }
    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
}
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
}

// 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{}
}

// 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) {

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*/

Found in path(s):
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementQNameIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/ElementIterator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/ElementHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/CDATA.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Document.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/rule/Action.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Comment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/Entity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanDocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/
Open Source Used In Crosswork Platform Infrastructure cw-infra-4.1.0-dockerimages-clean 11448
jar/org/dom4j/dom/DOMEntityReference.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightAttribute.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/DocumentFactory.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/DefaultDocument.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DocumentResult.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/SAXModifyElementHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/NodeComparator.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/ProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/UserDataElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/PerThreadSingleton.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/dom/DOMComment.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/XMLErrorHandler.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/NonLazyElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/bean/BeanAttributeList.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/DOMWriter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightEntity.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/AbstractProcessingInstruction.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/BackedList.java
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* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/util/IndexedElement.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/io/ElementStack.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/NodeFilter.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/XPathException.java
* /opt/ws_local/PERMITS_SQL/1034543185_1588830303.8/0/dom4j-2-1-3-sources-jar/org/dom4j/tree/FlyweightText.java
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portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

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

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in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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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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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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components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

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Some devices are designed to deny users access to install or run
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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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(kernel, window system, and so on) of the specific operating system
(if any) on which the executable work runs, or a compiler used to
produce the work, or an object code interpreter used to run it.

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

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

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

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

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

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

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1.1495 go-humanize 1.0.0

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1.1496 aws-sdk-go 1.28.8

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1.1497 netty-transport-native-kqueue

4.1.52.Final

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Manifest-Version: 1.0
Implementation-Title: Netty/Transport/Native/KQueue
Bundle-Description: Netty is an asynchronous event-driven network application framework for rapid development of maintainable high performance protocol servers and clients.
Automatic-Module-Name: io.netty.transport.kqueue
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.transport-native-kqueue
Implementation-Version: 4.1.52.Final
Built-By: norman
Bnd-LastModified: 1599554673629
Bundle-ManifestVersion: 2
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: io.netty.buffer;version="[4.1,5)";io.netty.channel.io.netty.channel.socket;version="[4.1,5)";io.netty.channel.unix;version="[4.1,5)";io.netty.util;version="[4.1,5)";io.netty.util.collection;ve
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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

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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
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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
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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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1.1504 kingpin 2.2.6
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Written by: Philip Hazel
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/jca/cc/CannotCreateRecordException.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/transaction/interceptor/rollback.RollbackRuleAttribute.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/transaction/interceptor/IncorrectResultSizeDataAccessException.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/transaction/support/DefaultTransactionDefinition.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/transaction/HeuristicCompletionException.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/jca/context/BootstrapContextAware.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/jca/cc/cci/ObjectMappingRecordOperation.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/jca/cc/cci/AbstractRecallableConnectionProvider.java
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/jca/cc/cci/ObjectMappingRecordOperation.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources.jar/org/springframework/jca/cc/cci/ObjectMappingRecordOperation.java
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/object/EisOperation.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java
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* /opt/cola/permits/1135872481_1613620989.54/0/spring-tx-5-2-12-release-sources-jar/org/springframework/transaction/SavepointManager.java
1.1507 proto-otlp 0.7.0

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1.1513 go-uuid 1.1.0

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