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1.2 jbcrypt 0.4

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1.3 commons-digester 2.1

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1.4 latencyutils 2.0.3

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1.5 jcifs 1.3.17

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1.6 handy-uri-templates 2.1.6

1.7 asm 5.0.4

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/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
```

```
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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   *
   * @throws IllegalStateException
```

```
     *           If a subclass calls this constructor.
     */
```

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* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceFieldVisitor.java
*
/asm-5-0-4-sources-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Constant.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationVisitor.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/MethodVisitor.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/Method.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Frame.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/AnnotationConstantsCollector.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/ParameterNode.java
*
/asm-5-0-4-sources-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Type.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/NameMapping.java

* /asm-5-0-4-sources-jar/org/objectweb/asm/Context.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/ClassWriter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Item.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/ConstantPool.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Handler.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodOptimizer.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/JarOptimizer.java
*
/asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Label.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/ByteVector.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/signature/SignatureReader.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InnerClassNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Handle.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/IincInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/FieldNode.java
*
/asm-5-0-4-sources-jar/org/objectweb/asm/AnnotationWriter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnList.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/Frame.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/Remapper.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/Printer.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/Shrinker.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/InsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/ClassVisitor.java
*
/asm-5-0-4-sources-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/MethodWriter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/optimizer/MethodConstantsCollector.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java

* /asm-5-0-4-sources-jar/org/objectweb/asm/ClassReader.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Edge.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/Opcodes.java
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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
```

```
   * @param start
   *          the 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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*/

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* /asm-5-0-4-sources-jar/org/objectweb/asm/util/Textifiable.java
* /asm-5-0-4-sources-jar/org/objectweb/asm/util/ASMifiable.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.
   */
```

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* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/GeneratorAdapter.java
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/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
```

```
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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* /asm-5-0-4-sources-jar/org/objectweb/asm/tree/analysis/package.html
* /asm-5-0-4-sources-jar/org/objectweb/asm/commons/package.html
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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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1.11 commons-beanutils 1.9.4

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1.14 big-math 2.0.0

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1.16 thrift 0.13.0

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1.17 commons-logging 1.2

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1.18 joda-time 2.10.6

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* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/CharMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/ClassMemberValue.java
*
/javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/BooleanMemberValue.java
* /javassist-3-24-1-ga-sources-3-jar/javassist/bytecode/annotation/IntegerMemberValue.java

1.21 javax-xml-soap-api 1.4.0

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*/

Found in path(s):
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/EllipticCurveKeyHelper.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/EllipticCurveSignatureHelper.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/EllipticCurveVerifier.java
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Found in path(s):

* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/codec/Codecs.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/InvalidSignatureException.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/JwtAlgorithms.java
*
/spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/BinaryFormat.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/RsaKeyHelper.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/Jwt.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/cipher/CipherMetadata.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/MacSigner.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/Signer.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/AlgorithmMetadata.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/RsaVerifier.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/SignatureVerifier.java
*
/spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/JwtHelper.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/RsaSigner.java
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/crypto/sign/SignerVerifier.java
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/**
* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).
* See http://iharder.net/base64 for more information.
*
* @author Luke Taylor
*/

Found in path(s):
* /spring-security-jwt-1-0-9-release-sources-2-jar/org/springframework/security/jwt/codec/Base64Codec.java

1.23 checker-qual 3.4.1

1.23.1 Available under license :

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1.24 jax-ws-api 2.3.1

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1.25 mapstruct-processor 1.2.0.Final

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```
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<#--

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-->
private static LocalDateTime
 ${name}( XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  if ( xcal.getYear() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getMonth() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getDay() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getHour() != DatatypeConstants.FIELD_UNDEFINED
```

```
    && xcal.getMinute() != DatatypeConstants.FIELD_UNDEFINED
    ) {
      if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
        && xcal.getMillisecond() != DatatypeConstants.FIELD_UNDEFINED ) {
        return new LocalDateTime( xcal.getYear(),
          xcal.getMonth(),
          xcal.getDay(),
          xcal.getHour(),
          xcal.getMinute(),
          xcal.getSecond(),
          xcal.getMillisecond()
        );
      }
      else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED ) {
        return new
 LocalDateTime( xcal.getYear(),
          xcal.getMonth(),
          xcal.getDay(),
          xcal.getHour(),
          xcal.getMinute(),
          xcal.getSecond()
        );
      }
      else {
        return new LocalDateTime( xcal.getYear(),
          xcal.getMonth(),
          xcal.getDay(),
          xcal.getHour(),
          xcal.getMinute()
      );
      }
    }
  return null;
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaLocalDateTime.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
private static LocalDate ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  if ( xcal.getYear() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getMonth() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getDay() != DatatypeConstants.FIELD_UNDEFINED )  {
        return new LocalDate( xcal.getYear(), xcal.getMonth(), xcal.getDay() );
  }

  return null;
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaLocalDate.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.SetterWrapper" -->
<#--

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-->
<#import "../macro/CommonMacros.ftl"
 as lib>
<@lib.handleExceptions>
  <@lib.sourceLocalVarAssignment/>
  <@lib.handleSourceReferenceNullCheck>
${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><@lib.handleAssignment/></@lib.h
andleWrite>;
  </@lib.handleSourceReferenceNullCheck>
</@lib.handleExceptions>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/SetterWrapper.ftl
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<#-- @ftlvariable name=""
type="org.mapstruct.ap.internal.model.assignment.GetterWrapperForCollectionsAndMaps" -->
<#--

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-->
<#import
 "../macro/CommonMacros.ftl" as lib>
<@lib.sourceLocalVarAssignment/>
if ( ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWriteAccesing /> != null ) {
  <@lib.handleExceptions>
    <#if ext.existingInstanceMapping>
```

```
      ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWriteAccesing />.clear();
    </#if>
    <@lib.handleLocalVarNullCheck needs_explicit_local_var=false>
      ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWriteAccesing />.<#if
ext.targetType.collectionType>addAll<#else>putAll</#if>( <@lib.handleWithAssignmentOrNullCheckVar/> );
    </@lib.handleLocalVarNullCheck>
  </@lib.handleExceptions>
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/GetterWrapperForCollectionsAndMaps.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.LocalVarWrapper" -->
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-->
<#if (thrownTypes?size
 == 0) >
  <#if !ext.isTargetDefined?? ><@includeModel object=ext.targetType/></#if> ${ext.targetWriteAccessorName} =
<@_assignment/>;
<#else>
  <#if !ext.isTargetDefined?? ><@includeModel object=ext.targetType/> ${ext.targetWriteAccessorName};</#if>
  try {
    ${ext.targetWriteAccessorName} = <@_assignment/>;
  }
  <#list thrownTypes as exceptionType>
  catch ( <@includeModel object=exceptionType/> e ) {
    throw new RuntimeException( e );
  }
```

```
  </#list>
</#if>
<#macro _assignment>
  <@includeModel object=assignment
          targetBeanName=ext.targetBeanName
          existingInstanceMapping=ext.existingInstanceMapping
          targetReadAccessorName=ext.targetReadAccessorName
          targetWriteAccessorName=ext.targetWriteAccessorName
          targetType=ext.targetType/>
</#macro>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/LocalVarWrapper.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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-->
private XMLGregorianCalendar
 ${name}( String date, String dateFormat ) {
  if ( date == null ) {
     return null;
  }

  try {
     if ( dateFormat != null ) {
        DateFormat df = new SimpleDateFormat( dateFormat );
        GregorianCalendar c = new GregorianCalendar();
        c.setTime( df.parse( date ) );
        return DatatypeFactory.newInstance().newXMLGregorianCalendar( c );
```

```
        }
        else {
            return DatatypeFactory.newInstance().newXMLGregorianCalendar( date );
        }
    }
    catch ( DatatypeConfigurationException ex ) {
        throw new RuntimeException( ex );
    }
    catch ( ParseException ex ) {
        throw new RuntimeException( ex );
    }
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/StringToXmlGregorianCalendar.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.common.SourceRHS" -->
<#--

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-->
<#if sourceLocalVarName??>${sourceLocalVarName}<#else>${sourceReference}</#if>
```

Found
 in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/SourceRHS.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.StreamMappingMethod" -->
<#--
```

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```
-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if
param_has_next>, </#if></#list>)<@throws/> {
  <#--TODO does it even make sense to do a callback if the result is a Stream, as they are immutable-->
  <#list beforeMappingReferencesWithoutMappingTarget as callback>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
   <#if !callback_has_next>

   </#if>
  </#list>
  if ( ${sourceParameter.name} == null ) {
     <#if !mapNullToDefault>
        <#-- returned target type starts to miss-align here with target handed via param, TODO is this right? -->
        return<#if returnType.name != "void"> null</#if>;
     <#else>
        <#if resultType.arrayType>
           <#if existingInstanceMapping>
              <#-- we can't clear an existing array, so we've got to clear by setting values to default -->
              for (int
 ${index2Name} = 0; ${index2Name} < ${resultName}.length; ${index2Name}++ ) {
                 ${resultName}[${index2Name}] = ${resultElementType.null};
              }
              return<#if returnType.name != "void"> ${resultName}</#if>;
           <#else>
              return new <@includeModel object=resultElementType/>[0];
           </#if>
        <#elseif resultType.iterableType>
           <#if existingInstanceMapping>
```

```
            ${resultName}.clear();
            return<#if returnType.name != "void"> ${resultName}</#if>;
          <#else>
            return <@includeModel object=iterableCreation useSizeIfPossible=false/>;
          </#if>
        <#else>
          <#if existingInstanceMapping>
            <#-- We cannot update an existing stream so we just return the old one -->
            return<#if returnType.name != "void"> ${resultName}</#if>;
          <#else>
             return Stream.empty();
          </#if>
        </#if>
      </#if>
  }

  <#-- A variable needs to be defined if there are before mappings and this is not exisitingInstanceMapping -->
  <#assign needVarDefine = beforeMappingReferencesWithMappingTarget?has_content &&
!existingInstanceMapping />

  <#if resultType.arrayType>
      <#if !existingInstanceMapping && needVarDefine>
        <#assign needVarDefine = false />
        <#-- We create a null array which later will be directly assigned from the stream-->
        ${resultElementType}[] ${resultName} = null;
      </#if>
  <#elseif resultType.iterableType>
      <#if existingInstanceMapping>
        ${resultName}.clear();
      <#elseif needVarDefine>
        <#assign needVarDefine = false />
        <#-- Use the interface type on the left side, except it is java.lang.Iterable; use the implementation type - if
present - on the right side -->
        <@iterableLocalVarDef/>
 ${resultName} = <@includeModel object=iterableCreation useSizeIfPossible=true/>;
      </#if>
  <#else>
      <#-- Streams are immutable so we can't update them -->
      <#if !existingInstanceMapping && needVarDefine>
        <#assign needVarDefine = false />
        <@iterableLocalVarDef/> ${resultName} = Stream.empty();
      </#if>
  </#if>

  <#list beforeMappingReferencesWithMappingTarget as callback>
      <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
      <#if !callback_has_next>
```

```
    </#if>
  </#list>

  <#-- If there are no after mappings, no variable was created before i.e. no before mappings
    and this is not an existingInstanceMapping then we can return immediatelly -->
  <#assign canReturnImmediatelly = !afterMappingReferences?has_content && !needVarDefine &&
!existingInstanceMapping/>

  <#if resultType.arrayType>
    <#if existingInstanceMapping>
    int ${index1Name}
 = 0;
    for ( <@includeModel object=resultElementType/> ${loopVariableName} : ${sourceParameter.name}.limit(
${resultName}.length )<@streamMapSupplier />.toArray( ${resultElementType}[]::new ) ) {
        if ( ( ${index1Name} >= ${resultName}.length ) ) {
          break;
        }
        ${resultName}[${index1Name}++] = ${loopVariableName};
    }
    <#else>
        <#if canReturnImmediatelly><#if returnType.name != "void">return </#if><#else> <#if
needVarDefine>${resultElementType}[] <#else>${resultName} =
</#if></#if>${sourceParameter.name}<@streamMapSupplier />
                .toArray( <@includeModel object=resultElementType/>[]::new );
    </#if>
  <#elseif resultType.iterableType>
    <#if existingInstanceMapping || !canReturnImmediatelly>
      ${resultName}.addAll( ${sourceParameter.name}<@streamMapSupplier />
                    .collect( Collectors.toCollection( <@iterableCollectionSupplier />
) )
                    );
    <#else>
      <@returnLocalVarDefOrUpdate>
        <#lt>${sourceParameter.name}<@streamMapSupplier />
          .collect( Collectors.toCollection( <@iterableCollectionSupplier /> ) );
      </@returnLocalVarDefOrUpdate>

    </#if>
  <#else>
    <#-- Streams are immutable so we can't update them -->
    <#if !existingInstanceMapping>
      <#--TODO fhr: after the the result is no longer the same instance, how does it affect the
        Before mapping methods. Does it even make sense to have before mapping on a stream? -->
      <#if sourceParameter.type.arrayType>
        <@returnLocalVarDefOrUpdate>Stream.of( ${sourceParameter.name} )<@streamMapSupplier
/>;</@returnLocalVarDefOrUpdate>
      <#elseif sourceParameter.type.collectionType>
        <@returnLocalVarDefOrUpdate>${sourceParameter.name}.stream()<@streamMapSupplier
```

```
/>;</@returnLocalVarDefOrUpdate>
          <#elseif sourceParameter.type.iterableType>
            <@returnLocalVarDefOrUpdate>StreamSupport.stream( ${sourceParameter.name}.spliterator(), false
)<@streamMapSupplier />;</@returnLocalVarDefOrUpdate>
          <#else>
            <@returnLocalVarDefOrUpdate>${sourceParameter.name}<@streamMapSupplier
/>;</@returnLocalVarDefOrUpdate>
          </#if>
        </#if>

    </#if>

    <#list afterMappingReferences as callback>
     <#if callback_index = 0>

     </#if>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
    </#list>

    <#if !canReturnImmediatelly && returnType.name != "void">
      return ${resultName};
    </#if>
}
<#macro throws>
    <#if (thrownTypes?size > 0)><#lt> throws </#if><@compress single_line=true>
      <#list thrownTypes as exceptionType>
        <@includeModel object=exceptionType/>
        <#if exceptionType_has_next>, </#if><#t>
      </#list>
    </@compress>
</#macro>
<#macro
 iterableSize>
    <@compress single_line=true>
      <#if sourceParameter.type.arrayType>
        ${sourceParameter.name}.length
      <#else>
        ${sourceParameter.name}.size()
      </#if>
    </@compress>
</#macro>
<#macro iterableLocalVarDef>
    <@compress single_line=true>
      <#if resultType.fullyQualifiedName == "java.lang.Iterable">
        <@includeModel object=resultType.implementationType/>
      <#else>
        <@includeModel object=resultType/>
      </#if>
```

```
  </@compress>
</#macro>
<#macro iterableCollectionSupplier>
  <@compress single_line=true>
    <#if resultType.implementationType??>
      <@includeModel object=resultType.implementationType/>
    <#else>
      <@includeModel object=resultType/></#if>::new
  </@compress>
</#macro>
<#macro streamMapSupplier>
  <@compress>
    <#if !elementAssignment.directAssignment?? || !elementAssignment.directAssignment>
      .map( <@includeModel object=elementAssignment
 targetBeanName=resultName targetType=resultElementType/> )
    </#if>
  </@compress>
</#macro>
<#macro returnLocalVarDefOrUpdate>
  <#if canReturnImmediatelly><#if returnType.name != "void">return </#if><#elseif
!needVarDefine><@iterableLocalVarDef/> ${resultName} = <#else>${resultName} = </#if><#nested />
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/StreamMappingMethod.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.DefaultMapperReference" -->
<#--

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-->
```

```
private final <@includeModel
 object=type/> ${variableName} = <#if annotatedMapper>Mappers.getMapper( <@includeModel
object=type/>.class );<#else>new <@includeModel object=type/>();</#if>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DefaultMapperReference.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.DecoratorConstructor" -->
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-->
public ${name}() {
   this(
 new ${delegateName}() );
}

private ${name}(${delegateName} delegate) {
   <#if invokeSuperConstructor>
   super( delegate );
   </#if>
   this.delegate = delegate;
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DecoratorConstructor.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--
```

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-->
private static XMLGregorianCalendar
 ${name}( java.time.LocalDate localDate ) {
  if ( localDate == null ) {
     return null;
  }

  try {
     return DatatypeFactory.newInstance().newXMLGregorianCalendarDate(
        localDate.getYear(),
        localDate.getMonthValue(),
        localDate.getDayOfMonth(),
        DatatypeConstants.FIELD_UNDEFINED
     );
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/LocalDateToXmlGregorianCalendar.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.BeanMappingMethod" -->
<#--

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-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if
param_has_next>, </#if></#list>)<@throws/> {
   <#list beforeMappingReferencesWithoutMappingTarget as callback>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
    <#if !callback_has_next>

    </#if>
   </#list>
   <#if !mapNullToDefault>
   if ( <#list sourceParametersExcludingPrimitives as sourceParam>${sourceParam.name} == null<#if
sourceParam_has_next> && </#if></#list> ) {
       return<#if returnType.name != "void"> null</#if>;
   }
   </#if>

   <#if !existingInstanceMapping>
       <@includeModel object=resultType/> ${resultName} = <#if factoryMethod??><@includeModel
object=factoryMethod targetType=resultType/><#else>new <@includeModel object=resultType/>()</#if>;

   </#if>
   <#list beforeMappingReferencesWithMappingTarget as callback>
    <@includeModel object=callback targetBeanName=resultName
 targetType=resultType/>
    <#if !callback_has_next>

    </#if>
   </#list>
   <#if (sourceParameters?size > 1)>
       <#list sourceParametersExcludingPrimitives as sourceParam>
           <#if (propertyMappingsByParameter(sourceParam)?size > 0)>
               if ( ${sourceParam.name} != null ) {
```

```
            <#list propertyMappingsByParameter(sourceParam) as propertyMapping>
              <@includeModel object=propertyMapping targetBeanName=resultName
existingInstanceMapping=existingInstanceMapping
defaultValueAssignment=propertyMapping.defaultValueAssignment/>
            </#list>
          }
        </#if>
      </#list>
      <#list sourcePrimitiveParameters as sourceParam>
        <#if (propertyMappingsByParameter(sourceParam)?size > 0)>
          <#list propertyMappingsByParameter(sourceParam) as propertyMapping>
            <@includeModel object=propertyMapping targetBeanName=resultName
existingInstanceMapping=existingInstanceMapping
 defaultValueAssignment=propertyMapping.defaultValueAssignment/>
          </#list>
        </#if>
      </#list>
  <#else>
      <#if mapNullToDefault>if ( ${sourceParameters[0].name} != null ) {</#if>
      <#list propertyMappingsByParameter(sourceParameters[0]) as propertyMapping>
        <@includeModel object=propertyMapping targetBeanName=resultName
existingInstanceMapping=existingInstanceMapping
defaultValueAssignment=propertyMapping.defaultValueAssignment/>
      </#list>
      <#if mapNullToDefault>}</#if>
  </#if>
  <#list constantMappings as constantMapping>
       <@includeModel object=constantMapping targetBeanName=resultName
existingInstanceMapping=existingInstanceMapping/>
  </#list>
  <#list afterMappingReferences as callback>
   <#if callback_index = 0>

   </#if>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>
  <#if returnType.name != "void">

  return
 ${resultName};
  </#if>
}
<#macro throws>
  <#if (thrownTypes?size > 0)><#lt> throws </#if><@compress single_line=true>
    <#list thrownTypes as exceptionType>
      <@includeModel object=exceptionType/>
      <#if exceptionType_has_next>, </#if><#t>
    </#list>
```

```
  </@compress>
</#macro>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/BeanMappingMethod.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.common.Parameter" -->
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-->
<@includeModel object=type/> ${name}
```

Found
 in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/Parameter.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.DelegatingMethod" -->
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-->
@Override
public <@includeModel
 object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if
param_has_next>, </#if></#list>) <@throws/> {
  <#if returnType.name != "void">return </#if>delegate.${name}( <#list parameters as param>${param.name}<#if
param_has_next>, </#if></#list> );
}
<#macro throws>
  <@compress single_line=true>
     <#if (thrownTypes?size > 0)>throws </#if>
     <#list thrownTypes as exceptionType>
        <@includeModel object=exceptionType/>
        <#if exceptionType_has_next>, </#if><#t>
     </#list>
  </@compress>
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DelegatingMethod.ftl
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<#-- @ftlvariable name=""
type="org.mapstruct.ap.internal.model.assignment.SetterWrapperForCollectionsAndMapsWithNullCheck" -->
<#--

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-->
<#import
 "../macro/CommonMacros.ftl" as lib>
<@lib.sourceLocalVarAssignment/>
<@lib.handleExceptions>
 <@callTargetWriteAccessor/>
 <#if !ext.defaultValueAssignment??>else {<#-- the opposite (defaultValueAssignment) case is handeld inside lib.handleLocalVarNullCheck -->
   ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if mapNullToDefault><@lib.initTargetObject/><#else>null</#if></@lib.handleWrite>;
 }
 </#if>
</@lib.handleExceptions>
<#--
 assigns the target via the regular target write accessor (usually the setter)
-->
<#macro callTargetWriteAccessor>
 <@lib.handleLocalVarNullCheck needs_explicit_local_var=directAssignment>
   ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if directAssignment><@wrapLocalVarInCollectionInitializer/><#else><@lib.handleWithAssignmentOrNullCheckVar/></#if></@lib.handleWrite>;
 </@lib.handleLocalVarNullCheck>
</#macro>
<#--
 wraps the local variable in a collection initializer (new collection,
 or EnumSet.copyOf)
-->
<#macro wrapLocalVarInCollectionInitializer><@compress single_line=true>
   <#if enumSet>
     EnumSet.copyOf(${nullCheckLocalVarName})
   <#else>
     new <#if ext.targetType.implementationType??><@includeModel object=ext.targetType.implementationType/><#else><@includeModel object=ext.targetType/></#if>(${nullCheckLocalVarName})
   </#if>
</@compress></#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/SetterWrapperForCollectionsAndMapsWithNullCheck.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
private DecimalFormat ${name}(
 String numberFormat ) {

  DecimalFormat df = new DecimalFormat( numberFormat );
  df.setParseBigDecimal( true );
  return df;
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/CreateDecimalFormat.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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```

```
-->
private XMLGregorianCalendar
 ${name}( Calendar cal ) {
  if ( cal == null ) {
     return null;
  }

  try {
     GregorianCalendar gcal = new GregorianCalendar();
     gcal.setTimeInMillis( cal.getTimeInMillis() );
     return DatatypeFactory.newInstance().newXMLGregorianCalendar( gcal );
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/CalendarToXmlGregorianCalendar.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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-->
private Calendar ${name}(ZonedDateTime
 dateTime) {
  if ( dateTime == null ) {
    return null;
```

```
  }

  Calendar instance = Calendar.getInstance( TimeZone.getTimeZone( dateTime.getZone() ) );
  instance.setTimeInMillis( dateTime.toInstant().toEpochMilli() );
  return instance;
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/ZonedDateTimeToCalendar.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.IterableCreation" -->
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-->
<@compress single_line=true>
   <#if factoryMethod??>
      <@includeModel object=factoryMethod targetType=resultType/>
  <#else>
  new
      <#if resultType.implementationType??>
         <@includeModel object=resultType.implementationType/><#if ext.useSizeIfPossible?? &&
ext.useSizeIfPossible && canUseSize>( <@sizeForCreation /> )<#else>()</#if>
      <#else>
         <@includeModel object=resultType/>()</#if>
      </#if>
</@compress>
<#macro sizeForCreation>
  <@compress single_line=true>
      <#if loadFactorAdjustment>
```

```
        Math.max( (int) ( <@iterableSize/> / .75f ) + 1, 16 )
      <#else>
        <@iterableSize/>
      </#if>
  </@compress>
</#macro>
<#macro iterableSize>
  <@compress single_line=true>
      <#if sourceParameter.type.arrayType>
        ${sourceParameter.name}.length
      <#else>
        ${sourceParameter.name}.size()
      </#if>
  </@compress>
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/IterableCreation.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.AdderWrapper" -->
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-->
<#import "../macro/CommonMacros.ftl"
 as lib>
<@lib.handleExceptions>
 if ( ${sourceReference} != null ) {
    for ( <@includeModel object=sourceType.typeParameters[0].typeBound/> ${sourceLocalVarName} :
${sourceReference} ) {
${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><@lib.handleAssignment/></@lib.h
```

andleWrite>;
    }
 }
</@lib.handleExceptions>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/AdderWrapper.ftl
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*/

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/CalendarToXmlGregorianCalendar.java
*
 /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/selector/MethodFamilySelector.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/spi/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/ConversionProvider.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/DateToSqlTimestampConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/IndentationCorrectingWriter.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/option/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/ForgedMethodHistory.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/EnumMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Strings.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/MappingOptions.java
*
 /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/processor/DefaultModelElementProcessorContext.java
* /mapstruct-processor-1-2-0-final-sources-3-

jar/org/mapstruct/ap/internal/conversion/JavaLocalDateTimeToDateConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/IterableCreation.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MappingBuilderContext.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/MapperServiceProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/ReverseConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/common/DefaultConversionContext.java
* /mapstruct-processor-1-2-0-final-sources-3-
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/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Extractor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/JaxbConstants.java
* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/DateToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/Mapping.java
* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/processor/creation/MappingResolverImpl.java
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/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/BeanMappingMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/prism/ReportingPolicyPrism.java
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/dependency/Node.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/EnumMapping.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/version/VersionInformation.java
* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/spi/DefaultAccessorNamingStrategy.java
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/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/Collections.java
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/CharToStringConversion.java
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* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/XmlConstants.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/DefaultMapperReference.java
* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/Method.java
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Field.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/NormalTypeMappingMethod.java
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/ZonedDateTimeToCalendar.java
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/AnnotationProcessingException.java
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* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JodaLocalTimeToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/MapMapping.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/common/DateFormatValidationResult.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/WrapperToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/AbstractBaseBuilder.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/common/FormattingParameters.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/MethodMatcher.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/GeneratedType.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/ValueProvider.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/writer/ModelWriter.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/SimpleConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/processor/MapperCreationProcessor.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/conversion/package-info.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/JavaStreamConstants.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/accessor/AbstractAccessor.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/SetterWrapperForCollectionsAndMapsWithNullCheck.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToLocalDate.java
*
/mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/FormattingMessager.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JodaLocalDateTimeToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/LifecycleCallbackMethodReference.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Annotation.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/selector/SelectedMethod.java
* /mapstruct-processor-1-2-0-final-sources-3-

jar/org/mapstruct/ap/internal/prism/NullValueCheckStrategyPrism.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/JaxbElemToValue.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/prism/MappingConstantsPrism.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/util/JodaTimeConstants.java
*
 /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/ModelElement.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/CollectionAssignmentBuilder.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/conversion/JodaDateTimeToStringConversion.java
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/AssignmentWrapper.java
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Decorator.java
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
```
private static java.time.LocalDate
 ${name}( XMLGregorianCalendar xcal ) {
   if ( xcal == null ) {
      return null;
   }

   return java.time.LocalDate.of( xcal.getYear(), xcal.getMonth(), xcal.getDay() );
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToLocalDate.ftl

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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.Java8FunctionWrapper" -->
<#--

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-->
<#assign sourceVarName><#if
 assignment.sourceLocalVarName??
>${assignment.sourceLocalVarName}<#else>${assignment.sourceReference}</#if></#assign>
<#if (thrownTypes?size == 0) >
  <#compress>
    <#if directAssignment>
    Function.identity()
    <#else>
    ${sourceVarName} -> <@_assignment/></#if>
  </#compress>
<#else>
  <#compress>
    ${sourceVarName} -> {
      try {
        return <@_assignment/>;
      }
      <#list thrownTypes as exceptionType>
      catch ( <@includeModel object=exceptionType/> e ) {
        throw new RuntimeException( e );
      }
      </#list>
    }
  </#compress>
</#if>
<#macro _assignment>
```

```
  <@includeModel object=assignment
  targetBeanName=ext.targetBeanName
  existingInstanceMapping=ext.existingInstanceMapping
  targetReadAccessorName=ext.targetReadAccessorName
  targetWriteAccessorName=ext.targetWriteAccessorName
  targetType=ext.targetType/>
</#macro>

Found in path(s):
*
 /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/Java8FunctionWrapper.ftl
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-->
<#--
 macro: handleSourceReferenceNullCheck

 purpose: macro surrounds nested with either a source presence checker
 or a null check. It acts directly on the
        source reference. It adds an else clause with the default assigment when applicable.

        requires: caller to implement boolean:getIncludeSourceNullCheck()
-->
<#macro handleSourceReferenceNullCheck>
  <#if sourcePresenceCheckerReference??>
     if ( ${sourcePresenceCheckerReference} ) {
        <#nested>
     }
```

```
      <@elseDefaultAssignment/>
  <#elseif includeSourceNullCheck || ext.defaultValueAssignment??>
      if ( <#if sourceLocalVarName??>${sourceLocalVarName}<#else>${sourceReference}</#if> != null ) {
         <#nested>
      }
      <@elseDefaultAssignment/>
  <#else>
      <#nested>
  </#if>
</#macro>
<#--
  local macro related to handleSourceReferenceNullCheck
-->
<#macro elseDefaultAssignment>
  <#if ext.defaultValueAssignment?? >
    else {
      <@handeDefaultAssigment/>
    }
  </#if>
</#macro>
<#--
 macro: handleLocalVarNullCheck

 purpose: macro surrounds nested with
 either a source presence checker or a null check. It always uses
        a local variable. Note that the local variable assignemnt is inside the IF statement for the
        source presence check. Note also, that the else clause contains the default variable assignment if
        present.

        requires: caller to implement String:getNullCheckLocalVarName()
                caller to implement Type:getNullCheckLocalVarType()
-->
<#macro handleLocalVarNullCheck needs_explicit_local_var>
 <#if sourcePresenceCheckerReference??>
  if ( ${sourcePresenceCheckerReference} ) {
    <#if needs_explicit_local_var>
      <@includeModel object=nullCheckLocalVarType/> ${nullCheckLocalVarName} =
<@lib.handleAssignment/>;
      <#nested>
    <#else>
      <#nested>
    </#if>
  }
 <#else>
  <@includeModel object=nullCheckLocalVarType/> ${nullCheckLocalVarName} = <@lib.handleAssignment/>;
  if ( ${nullCheckLocalVarName} != null ) {
    <#nested>
  }
```

```
</#if>
 <#if ext.defaultValueAssignment?? >
else {
  <@handeDefaultAssigment/>
}
</#if>
</#macro>
<#--
  Gives the value that needs to be assigned. If there is a sourcePresenceCheckerReference then a direct
  lib.handleAssignment is done, otherwise nullCheckLocalVarName is used.

  requires:       caller to implement String:getNullCheckLocalVarName()
-->
<#macro handleWithAssignmentOrNullCheckVar><#if
sourcePresenceCheckerReference??><@lib.handleAssignment/><#else>${nullCheckLocalVarName}</#if></#mac
ro>
<#--
 macro: handleExceptions

 purpose: Includes the try - catch clauses around the nested code.
-->
<#macro handleExceptions>
 <#if (thrownTypes?size == 0) >
      <#nested>
 <#else>
      try {
         <#nested>
      }
      <#list thrownTypes as exceptionType>
      catch ( <@includeModel object=exceptionType/> e ) {
         throw new RuntimeException( e );
      }
      </#list>
 </#if>
</#macro>
<#--
Performs a standard assignment.
-->
<#macro
 handleAssignment>
  <@includeModel object=assignment
           targetBeanName=ext.targetBeanName
           existingInstanceMapping=ext.existingInstanceMapping
           targetReadAccessorName=ext.targetReadAccessorName
           targetWriteAccessorName=ext.targetWriteAccessorName
           targetType=ext.targetType/>
</#macro>
<#--
```

```
Performs a default assignment with a default value.
-->
<#macro handeDefaultAssigment>
  <@includeModel object=ext.defaultValueAssignment
          targetBeanName=ext.targetBeanName
          existingInstanceMapping=ext.existingInstanceMapping
          targetReadAccessorName=ext.targetReadAccessorName
          targetWriteAccessorName=ext.targetWriteAccessorName
          targetType=ext.targetType
          defaultValue=ext.defaultValue/>
</#macro>
<#--
 macro: handleWrite

 purpose: To handle the writing to a field or using a method. The line is not closed with ';'
-->
<#macro handleWrite><#if
 fieldAssignment> = <#nested><#else>( <#nested> )</#if></#macro>

<#--
 macro: handleWriteAccesing

 purpose: To handle accesing the write target type
-->
<#macro handleWriteAccesing><#if fieldAssignment><#else>()</#if></#macro>
<#--
 macro: initTargetObject

 purpose: To factorize or construct a new target object
-->
<#macro initTargetObject><@compress single_line=true>
  <#if factoryMethod??>
     <@includeModel object=factoryMethod targetType=ext.targetType/>
  <#else>
      new <@constructTargetObject/>()
  </#if>
</@compress></#macro>
<#--
 macro: constructTargetObject

 purpose: Either call the constructor of the target object directly or of the implementing type.
-->
<#macro constructTargetObject><@compress single_line=true>
  <#if ext.targetType.implementationType??>
     <@includeModel object=ext.targetType.implementationType/>
  <#else>
     <@includeModel object=ext.targetType/>
  </#if>
```

```
</@compress></#macro>
<#--
 macro: sourceLocalVarAssignment

  purpose: assignment for source local variables. The sourceLocalVarName replaces the sourceReference in the
        assignmentcall.
-->
<#macro sourceLocalVarAssignment>
  <#if sourceLocalVarName??>
    <@includeModel object=sourceType/> ${sourceLocalVarName} = ${sourceReference};
  </#if>
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/macro/CommonMacros.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
private XMLGregorianCalendar
 ${name}( LocalTime dt ) {
  if ( dt == null ) {
     return null;
  }

  try {
     return DatatypeFactory.newInstance().newXMLGregorianCalendarTime(
        dt.getHourOfDay(),
        dt.getMinuteOfHour(),
```

```
            dt.getSecondOfMinute(),
            dt.getMillisOfSecond(),
            DatatypeConstants.FIELD_UNDEFINED );
    }
    catch ( DatatypeConfigurationException ex ) {
        throw new RuntimeException( ex );
    }
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/JodaLocalTimeToXmlGregorianCalendar.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.TypeConversion" -->
<#--

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-->
<@compress single_line=true>
${openExpression}<@_assignment/>${closeExpression}
<#macro
 _assignment>
   <@includeModel object=assignment
            targetBeanName=ext.targetBeanName
            existingInstanceMapping=ext.existingInstanceMapping
            targetReadAccessorName=ext.targetReadAccessorName
            targetWriteAccessorName=ext.targetWriteAccessorName
            targetType=ext.targetType/>
</#macro>
</@compress>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/TypeConversion.ftl
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```
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-->
${name}<#if ext.input??>( ${ext.input} )<#else>()</#if>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/ConversionMethod.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.EnumConstantWrapper" -->
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```

```
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-->
${ext.targetType.name}.${assignment}

Found
 in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/EnumConstantWrapper.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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-->
private static DateTime ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  if ( xcal.getYear() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getMonth() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getDay() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getHour() != DatatypeConstants.FIELD_UNDEFINED
     && xcal.getMinute() != DatatypeConstants.FIELD_UNDEFINED
     ) {
        if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
           && xcal.getMillisecond() != DatatypeConstants.FIELD_UNDEFINED
           && xcal.getTimezone() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new DateTime( xcal.getYear(),
```

```
            xcal.getMonth(),
            xcal.getDay(),
            xcal.getHour(),
            xcal.getMinute(),
            xcal.getSecond(),
            xcal.getMillisecond(),
            DateTimeZone.forOffsetMillis( xcal.getTimezone() * 60000
)
        );
    }
    else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
        && xcal.getMillisecond() != DatatypeConstants.FIELD_UNDEFINED ) {
        return new DateTime( xcal.getYear(),
            xcal.getMonth(),
            xcal.getDay(),
            xcal.getHour(),
            xcal.getMinute(),
            xcal.getSecond(),
            xcal.getMillisecond()
        );
    }
    else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
        && xcal.getTimezone() != DatatypeConstants.FIELD_UNDEFINED ) {
        return new DateTime( xcal.getYear(),
            xcal.getMonth(),
            xcal.getDay(),
            xcal.getHour(),
            xcal.getMinute(),
            xcal.getSecond(),
            DateTimeZone.forOffsetMillis( xcal.getTimezone() * 60000 )
        );

    }
    else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED ) {
        return new DateTime( xcal.getYear(),
            xcal.getMonth(),
            xcal.getDay(),
            xcal.getHour(),
            xcal.getMinute(),
            xcal.getSecond()
        );
    }
    else if ( xcal.getTimezone() != DatatypeConstants.FIELD_UNDEFINED ) {
        return new DateTime( xcal.getYear(),
            xcal.getMonth(),
            xcal.getDay(),
            xcal.getHour(),
            xcal.getMinute(),
```

```
                DateTimeZone.forOffsetMillis( xcal.getTimezone() * 60000 )
            );
            }
            else {
               return new DateTime( xcal.getYear(),
                  xcal.getMonth(),
                  xcal.getDay(),
                  xcal.getHour(),
                  xcal.getMinute()
            );
            }

     }
   return null;
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaDateTime.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.Annotation" -->
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-->
@<@includeModel object=type/><#if (properties?size
 > 0) >(<#list properties as property>${property}<#if property_has_next>, </#if></#list>)</#if>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Annotation.ftl

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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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    limitations under the License.

-->
private <T> T ${name}( JAXBElement<T>
 element ) {
  if ( element == null ) {
     return null;
  }

  return element.isNil() ? null : element.getValue();
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/JaxbElemToValue.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.common.Type" -->

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-->
<@compress single_line=true>
<#if
wildCardExtendsBound>
? extends <@includeModel object=typeBound />
<#elseif wildCardSuperBound>
? super <@includeModel object=typeBound />
<#else>
<#if imported>${name}<#else>${fullyQualifiedName}</#if></#if><#if (!ext.raw?? && typeParameters?size > 0) ><<#list typeParameters as typeParameter><@includeModel object=typeParameter /><#if typeParameter_has_next>, </#if></#list>>
</#if>
</@compress>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/common/Type.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
<#--

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```
-->
private static LocalTime ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  if ( xcal.getHour() != DatatypeConstants.FIELD_UNDEFINED
      && xcal.getMinute() != DatatypeConstants.FIELD_UNDEFINED ) {
        if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED
           && xcal.getMillisecond() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new LocalTime( xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond(),
              xcal.getMillisecond()
           );
        }
        else if ( xcal.getSecond() != DatatypeConstants.FIELD_UNDEFINED ) {
           return new LocalTime(
              xcal.getHour(),
              xcal.getMinute(),
              xcal.getSecond()
           );
        }
        else {
           return new LocalTime( xcal.getHour(),
              xcal.getMinute()
        );
        }
     }
  return
 null;
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToJodaLocalTime.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.LifecycleCallbackMethodReference" -->
<#--

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-->
<@compress single_line=true>
   <#if hasReturnType()>
      <@includeModel object=methodResultType /> ${targetVariableName} =
  </#if>
  <#include 'MethodReference.ftl'>;
</@compress>
<#if hasReturnType()><#nt>
if ( ${targetVariableName} != null ) {
  return<#if methodReturnType.name != "void"> ${targetVariableName}</#if>;
}</#if>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/LifecycleCallbackMethodReference.ftl
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<#-- @ftlvariable name=""
type="org.mapstruct.ap.internal.model.assignment.SetterWrapperForCollectionsAndMaps" -->
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```

-->
<#import
 "../macro/CommonMacros.ftl" as lib>
<@lib.sourceLocalVarAssignment/>
<@lib.handleExceptions>
${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><@lib.handleAssignment/></@lib.handleWrite>;
</@lib.handleExceptions>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/SetterWrapperForCollectionsAndMaps.ftl
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org.mapstruct.ap.internal.processor.CdiComponentProcessor
org.mapstruct.ap.internal.processor.Jsr330ComponentProcessor
org.mapstruct.ap.internal.processor.MapperCreationProcessor
org.mapstruct.ap.internal.processor.MapperRenderingProcessor
org.mapstruct.ap.internal.processor.MethodRetrievalProcessor
org.mapstruct.ap.internal.processor.SpringComponentProcessor
org.mapstruct.ap.internal.processor.MapperServiceProcessor

Found
 in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/META-INF/services/org.mapstruct.ap.internal.processor.ModelElementProcessor
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.MapMappingMethod" -->
<#--

```
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-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType /> ${name}(<#list parameters as param><@includeModel
object=param/><#if param_has_next>, </#if></#list>)<@throws/> {
  <#list beforeMappingReferencesWithoutMappingTarget as callback>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
   <#if !callback_has_next>

   </#if>
  </#list>
  if ( ${sourceParameter.name} == null ) {
     <#if !mapNullToDefault>
        return<#if returnType.name != "void"> null</#if>;
     <#else>
        <#if existingInstanceMapping>
           ${resultName}.clear();
           return<#if returnType.name != "void"> ${resultName}</#if>;
        <#else>
           return <@includeModel object=iterableCreation useSizeIfPossible=false/>;
        </#if>
     </#if>
  }

  <#if existingInstanceMapping>
     ${resultName}.clear();
  <#else>
     <@includeModel object=resultType /> ${resultName} = <@includeModel
 object=iterableCreation useSizeIfPossible=true/>;
  </#if>
```

```
  <#list beforeMappingReferencesWithMappingTarget as callback>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
    <#if !callback_has_next>

    </#if>
  </#list>
  <#-- Once #148 has been addressed, the simple name of Map.Entry can be used -->
  for ( java.util.Map.Entry<<#list sourceElementTypes as typeParameter><@includeModel object=typeParameter
/><#if typeParameter_has_next>, </#if></#list>> ${entryVariableName} : ${sourceParameter.name}.entrySet() ) {
  <#-- key -->
    <@includeModel object=keyAssignment
          targetWriteAccessorName=keyVariableName
          targetType=resultElementTypes[0].typeBound/>
  <#-- value -->
    <@includeModel object=valueAssignment
          targetWriteAccessorName=valueVariableName
          targetType=resultElementTypes[1].typeBound/>
    ${resultName}.put( ${keyVariableName},
 ${valueVariableName} );
  }
  <#list afterMappingReferences as callback>
   <#if callback_index = 0>

   </#if>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>
  <#if returnType.name != "void">

    return ${resultName};
  </#if>
}
<#macro throws>
  <#if (thrownTypes?size > 0)><#lt> throws </#if><@compress single_line=true>
    <#list thrownTypes as exceptionType>
      <@includeModel object=exceptionType/>
      <#if exceptionType_has_next>, </#if><#t>
    </#list>
  </@compress>
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MapMappingMethod.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.MethodReference" -->
<#--
```

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```
-->
<@compress single_line=true>

  <#-- method is either internal to the mapper class, or external (via uses) declaringMapper!=null -->
  <#if declaringMapper??>
    <#if static><@includeModel
object=declaringMapper.type/><#else>${mapperVariableName}</#if>.<@methodCall/>
  <#-- method is provided by a context parameter  -->
  <#elseif providingParameter??>
    <#if static><@includeModel
object=providingParameter.type/><#else>${providingParameter.name}</#if>.<@methodCall/>
  <#-- method is referenced java8 static method in the mapper to implement (interface)  -->
  <#elseif static>
    <@includeModel object=definingType/>.<@methodCall/>
  <#else>
    <@methodCall/>
  </#if>
</@compress>
<#--
 macro:   methodCall
 purpose: the actual method call (stuff following the dot)
-->
<#macro methodCall>
  <#lt>${name}<#if (parameterBindings?size > 0)>( <@arguments/> )<#else>()</#if>
</#macro>
<#--
 macro:   arguments
 purpose: the arguments in the method call
-->
<#macro arguments>
  <#list
```

```
 parameterBindings as param>
      <#if param.targetType>
         <#-- a class is passed on for casting, see @TargetType -->
         <@includeModel object=ext.targetType raw=true/>.class<#t>
      <#elseif param.mappingTarget>
         ${ext.targetBeanName}<#if ext.targetReadAccessorName??>.${ext.targetReadAccessorName}</#if><#t>
      <#elseif param.mappingContext>
         ${param.variableName}<#t>
      <#elseif param.sourceRHS??>
         <@_assignment assignmentToUse=param.sourceRHS/><#t>
      <#elseif assignment??>
         <@_assignment assignmentToUse=assignment/><#t>
      <#else>
         ${param.variableName}<#t>
      </#if>
         <#if param_has_next>, </#if><#t>
      </#list>
   <#-- context parameter, e.g. for builtin methods concerning date conversion -->
   <#if contextParam??>, ${contextParam}</#if><#t>
</#macro>
<#--
 macro:   assignment
 purpose: note: takes its targetyType from the singleSourceParameterType
-->
<#macro
 _assignment assignmentToUse>
  <@includeModel object=assignmentToUse
      targetBeanName=ext.targetBeanName
            existingInstanceMapping=ext.existingInstanceMapping
            targetReadAccessorName=ext.targetReadAccessorName
            targetWriteAccessorName=ext.targetWriteAccessorName
            targetType=singleSourceParameterType/>
</#macro>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/MethodReference.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.NestedPropertyMappingMethod" -->
<#--

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-->
<#lt>private <@includeModel
 object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if
param_has_next>, </#if></#list>) {
  if ( ${sourceParameter.name} == null ) {
     return ${returnType.null};
  }
<#list propertyEntries as entry>
  <#if entry.presenceCheckerName?? >
  if ( !<@localVarName index=entry_index/>.${entry.presenceCheckerName}() ) {
     return ${returnType.null};
  }
  </#if>
  <@includeModel object=entry.type/> ${entry.name} = <@localVarName
index=entry_index/>.${entry.accessorName};
  <#if !entry.presenceCheckerName?? >
  <#if !entry.type.primitive>
  if ( ${entry.name} == null ) {
     return ${returnType.null};
  }
  </#if>
  </#if>
  <#if !entry_has_next>
  return ${entry.name};
  </#if>
</#list>
}
<#macro localVarName index><#if index == 0>${sourceParameter.name}<#else>${propertyEntries[index-
1].name}</#if></#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/NestedPropertyMappingMethod.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.ValueMappingMethod" -->
<#--
```

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```
-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType/> ${name}(<@includeModel object=sourceParameter/>) {
  <#list beforeMappingReferencesWithoutMappingTarget as callback>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
    <#if !callback_has_next>

    </#if>
  </#list>
  if ( ${sourceParameter.name} == null ) {
    return <#if nullTarget??><@includeModel object=returnType/>.${nullTarget}<#else>null</#if>;
  }

  <@includeModel object=resultType/> ${resultName};

  switch ( ${sourceParameter.name} ) {
  <#list valueMappings as valueMapping>
    case ${valueMapping.source}: ${resultName} = <#if valueMapping.target??><@includeModel
object=returnType/>.${valueMapping.target}<#else>null</#if>;
    break;
  </#list>
  default: <#if throwIllegalArgumentException>throw new IllegalArgumentException( "Unexpected enum
constant: " + ${sourceParameter.name} )<#else>${resultName} = <#if defaultTarget??><@includeModel
 object=returnType/>.${defaultTarget}<#else>null</#if></#if>;
  }
  <#list beforeMappingReferencesWithMappingTarget as callback>
    <#if callback_index = 0>

    </#if>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
```

```
  </#list>
  <#list afterMappingReferences as callback>
    <#if callback_index = 0>

    </#if>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>

  return ${resultName};
}
```

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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/ValueMappingMethod.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.AnnotationMapperReference" -->
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-->
<#list annotations as
 annotation>
<#nt><@includeModel object=annotation/>
</#list>
private <@includeModel object=type/> ${variableName};
```

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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/AnnotationMapperReference.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.ArrayCopyWrapper" -->
<#--
```

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-->
<#import "../macro/CommonMacros.ftl"
 as lib>
<@lib.handleExceptions>
  <@lib.sourceLocalVarAssignment/>
  <@lib.handleSourceReferenceNullCheck>
     ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite>Arrays.copyOf(
${sourceLocalVarName}, ${sourceLocalVarName}.length )</@lib.handleWrite>;
  </@lib.handleSourceReferenceNullCheck>
</@lib.handleExceptions>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/ArrayCopyWrapper.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.EnumMappingMethod" -->
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-->
@Override
public <@includeModel
 object=returnType/> ${name}(<@includeModel object=sourceParameter/>) {
  <#list beforeMappingReferencesWithoutMappingTarget as callback>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
     <#if !callback_has_next>

     </#if>
  </#list>
  if ( ${sourceParameter.name} == null ) {
     return  null;
  }

  <@includeModel object=resultType/> ${resultName};

  switch ( ${sourceParameter.name} ) {
  <#list enumMappings as enumMapping>
     case ${enumMapping.source}: ${resultName} = <@includeModel
object=returnType/>.${enumMapping.target};
        break;
  </#list>
  default: throw new IllegalArgumentException( "Unexpected enum constant: " + ${sourceParameter.name} );
  }
  <#list beforeMappingReferencesWithMappingTarget as callback>
     <#if callback_index = 0>

     </#if>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>
  <#list afterMappingReferences
 as callback>
     <#if callback_index = 0>

     </#if>
     <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>

  return ${resultName};
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/EnumMappingMethod.ftl
```

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```
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-->
private String ${name}( XMLGregorianCalendar
 xcal, String dateFormat ) {
  if ( xcal == null ) {
     return null;
  }

  if (dateFormat == null ) {
     return xcal.toString();
  }
  else {
     Date d = xcal.toGregorianCalendar().getTime();
     SimpleDateFormat sdf = new SimpleDateFormat( dateFormat );
     return sdf.format( d );
  }
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToString.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.assignment.UpdateWrapper" -->
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-->
<#import '../macro/CommonMacros.ftl'
 as lib >
<@lib.handleExceptions>
 <#if includeSourceNullCheck>
  if ( <#if sourcePresenceCheckerReference?? >${sourcePresenceCheckerReference}<#else>${sourceReference}
!= null</#if> ) {
    <@assignToExistingTarget/>
    <@lib.handleAssignment/>;
  }
  else {
   ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if
mapNullToDefault><@lib.initTargetObject/><#else>null</#if></@lib.handleWrite>;
  }
 <#else>
  <@assignToExistingTarget/>
  <@lib.handleAssignment/>;
 </#if>
</@lib.handleExceptions>
<#--
  target innner check and assignment
-->
<#macro assignToExistingTarget>
  if ( ${ext.targetBeanName}.${ext.targetReadAccessorName} == null ) {
${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><@lib.initTargetObject/></@lib.han
dleWrite>;
  }
</#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/assignment/UpdateWrapper.ftl
```

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```
<#-- @ftlvariable name=""
type="org.mapstruct.ap.internal.model.assignment.ExistingInstanceSetterWrapperForCollectionsAndMaps" -->
<#--

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-->
<#import "../macro/CommonMacros.ftl" as lib>
<@lib.sourceLocalVarAssignment/>
<@lib.handleExceptions>
 if ( ${ext.targetBeanName}.${ext.targetReadAccessorName} != null ) {
    <@lib.handleLocalVarNullCheck needs_explicit_local_var=false>
    ${ext.targetBeanName}.${ext.targetReadAccessorName}.clear();
    ${ext.targetBeanName}.${ext.targetReadAccessorName}.<#if
ext.targetType.collectionType>addAll<#else>putAll</#if>( <@lib.handleWithAssignmentOrNullCheckVar/> );
    </@lib.handleLocalVarNullCheck>
    <#if !ext.defaultValueAssignment?? && !sourcePresenceCheckerReference?? &&
!includeSourceNullCheck>else {<#-- the opposite (defaultValueAssignment) case is handeld inside
lib.handleLocalVarNullCheck -->
    ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if
mapNullToDefault><@lib.initTargetObject/><#else>null</#if></@lib.handleWrite>;
    }
    </#if>
 }
 else {
    <@callTargetWriteAccessor/>
 }
</@lib.handleExceptions>
<#--
```

```
 assigns the target via the regular target write accessor (usually the setter)
-->
<#macro callTargetWriteAccessor>
 <@lib.handleLocalVarNullCheck needs_explicit_local_var=directAssignment>
  ${ext.targetBeanName}.${ext.targetWriteAccessorName}<@lib.handleWrite><#if
directAssignment><@wrapLocalVarInCollectionInitializer/><#else><@lib.handleWithAssignmentOrNullCheckVa
r/></#if></@lib.handleWrite>;
 </@lib.handleLocalVarNullCheck>
</#macro>
<#--
 wraps the local variable in a collection initializer (new collection, or EnumSet.copyOf)
-->
<#macro wrapLocalVarInCollectionInitializer><@compress single_line=true>
  <#if enumSet>
    EnumSet.copyOf( ${nullCheckLocalVarName} )
  <#else>
    new <#if ext.targetType.implementationType??><@includeModel
object=ext.targetType.implementationType/><#else><@includeModel object=ext.targetType/></#if>(
${nullCheckLocalVarName} )
  </#if>
</@compress></#macro>

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/assignment/ExistingInstanceSetterWrapperForCollectionsAndMaps.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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-->
```

```
private static Date ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  return xcal.toGregorianCalendar().getTime();
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToDate.ftl
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org.mapstruct.ap.MappingProcessor
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/META-INF/services/javax.annotation.processing.Processor
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.IterableMappingMethod" -->
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-->
<#if overridden>@Override</#if>
<#lt>${accessibility.keyword}
 <@includeModel object=returnType/> ${name}(<#list parameters as param><@includeModel object=param/><#if
param_has_next>, </#if></#list>)<@throws/> {
   <#list beforeMappingReferencesWithoutMappingTarget as callback>
    <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
    <#if !callback_has_next>

    </#if>
   </#list>
   if ( ${sourceParameter.name} == null ) {
      <#if !mapNullToDefault>
         <#-- returned target type starts to miss-align here with target handed via param, TODO is this right? -->
         return<#if returnType.name != "void"> null</#if>;
      <#else>
         <#if resultType.arrayType>
            <#if existingInstanceMapping>
               <#-- we can't clear an existing array, so we've got to clear by setting values to default -->
               for (int ${index2Name} = 0; ${index2Name} < ${resultName}.length; ${index2Name}++ ) {
                  ${resultName}[${index2Name}]
 = ${resultElementType.null};
               }
               return<#if returnType.name != "void"> ${resultName}</#if>;
            <#else>
               return new <@includeModel object=resultElementType/>[0];
            </#if>
         <#else>
            <#if existingInstanceMapping>
               ${resultName}.clear();
               return<#if returnType.name != "void"> ${resultName}</#if>;
            <#else>
               return <@includeModel object=iterableCreation useSizeIfPossible=false/>;
            </#if>
         </#if>
      </#if>
   }

   <#if resultType.arrayType>
```

```
    <#if !existingInstanceMapping>
      <#assign elementTypeString><@includeModel object=resultElementType/></#assign>
      ${elementTypeString}[] ${resultName} = new
${elementTypeString?keep_before('[]')}[<@iterableSize/>]${elementTypeString?replace('[^\\[\\]]+', '', 'r')};
    </#if>
  <#else>
     <#if existingInstanceMapping>
      ${resultName}.clear();
    <#else>
      <#-- Use the interface type on the left side, except it is java.lang.Iterable; use the implementation type - if
present - on the right side -->
      <@iterableLocalVarDef/> ${resultName} = <@includeModel object=iterableCreation
useSizeIfPossible=true/>;
    </#if>
  </#if>
  <#list beforeMappingReferencesWithMappingTarget as callback>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
   <#if !callback_has_next>

   </#if>
  </#list>
  <#if resultType.arrayType>
    int ${index1Name} = 0;
    for ( <@includeModel object=sourceElementType/> ${loopVariableName} : ${sourceParameter.name} ) {
      <#if existingInstanceMapping>
      if ( ( ${index1Name} >= ${resultName}.length ) || ( ${index1Name} >= <@iterableSize/> ) ) {
        break;
      }
      </#if>
      <@includeModel object=elementAssignment
 targetWriteAccessorName=resultName+"[${index1Name}]" targetType=resultElementType
isTargetDefined=true/>
      ${index1Name}++;
    }
  <#else>
    for ( <@includeModel object=sourceElementType/> ${loopVariableName} : ${sourceParameter.name} ) {
      <@includeModel object=elementAssignment targetBeanName=resultName
targetWriteAccessorName="add" targetType=resultElementType/>
    }
  </#if>
  <#list afterMappingReferences as callback>
   <#if callback_index = 0>

   </#if>
   <@includeModel object=callback targetBeanName=resultName targetType=resultType/>
  </#list>

  <#if returnType.name != "void">
```

```
      return ${resultName};
  </#if>
}
<#macro throws>
  <#if (thrownTypes?size > 0)><#lt> throws </#if><@compress single_line=true>
      <#list thrownTypes as exceptionType>
          <@includeModel object=exceptionType/>
          <#if exceptionType_has_next>, </#if><#t>
      </#list>
  </@compress>
</#macro>
<#macro
 iterableSize>
  <@compress single_line=true>
      <#if sourceParameter.type.arrayType>
        ${sourceParameter.name}.length
      <#else>
        ${sourceParameter.name}.size()
      </#if>
  </@compress>
</#macro>
<#macro iterableLocalVarDef>
  <@compress single_line=true>
      <#if resultType.fullyQualifiedName == "java.lang.Iterable">
          <@includeModel object=resultType.implementationType/>
      <#else>
          <@includeModel object=resultType/>
      </#if>
  </@compress>
</#macro>
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/IterableMappingMethod.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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-->
private Calendar ${name}(
 XMLGregorianCalendar xcal ) {
  if ( xcal == null ) {
     return null;
  }

  Calendar cal = Calendar.getInstance();
  cal.setTimeInMillis( xcal.toGregorianCalendar().getTimeInMillis() );
  return cal;
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/XmlGregorianCalendarToCalendar.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.VirtualMappingMethod" -->
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-->
private ZonedDateTime ${name}(Calendar
 cal) {
  if ( cal == null ) {
```

```
        return null;
    }

    return ZonedDateTime.ofInstant( cal.toInstant(), cal.getTimeZone().toZoneId() );
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/CalendarToZonedDateTime.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.Field" -->
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-->
private final <@includeModel object=type/>
 ${variableName};
```

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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/Field.ftl
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```
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-->
private XMLGregorianCalendar
 ${name}( LocalDate dt ) {
  if ( dt == null ) {
     return null;
  }

  try {
     return DatatypeFactory.newInstance().newXMLGregorianCalendarDate(
        dt.getYear(),
        dt.getMonthOfYear(),
        dt.getDayOfMonth(),
        DatatypeConstants.FIELD_UNDEFINED );
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/JodaLocalDateToXmlGregorianCalendar.ftl
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<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.PropertyMapping" -->
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-->
<@includeModel object=assignment
               targetBeanName=ext.targetBeanName
              existingInstanceMapping=ext.existingInstanceMapping
              targetReadAccessorName=targetReadAccessorName
              targetWriteAccessorName=targetWriteAccessorName
              targetType=targetType
              defaultValueAssignment=defaultValueAssignment />

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/PropertyMapping.ftl
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-->
private XMLGregorianCalendar
 ${name}( LocalDateTime dt ) {
  if ( dt == null ) {
     return null;
  }

  try {
```

```
      return DatatypeFactory.newInstance().newXMLGregorianCalendar(
          dt.getYear(),
          dt.getMonthOfYear(),
          dt.getDayOfMonth(),
          dt.getHourOfDay(),
          dt.getMinuteOfHour(),
          dt.getSecondOfMinute(),
          dt.getMillisOfSecond(),
          DatatypeConstants.FIELD_UNDEFINED );
    }
    catch ( DatatypeConfigurationException ex ) {
      throw new RuntimeException( ex );
    }
}

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-
jar/org/mapstruct/ap/internal/model/source/builtin/JodaLocalDateTimeToXmlGregorianCalendar.ftl
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-->
private XMLGregorianCalendar
 ${name}( Date date ) {
    if ( date == null ) {
      return null;
    }

    try {
```

```
      GregorianCalendar c = new GregorianCalendar();
      c.setTime( date );
      return DatatypeFactory.newInstance().newXMLGregorianCalendar( c );
    }
    catch ( DatatypeConfigurationException ex ) {
      throw new RuntimeException( ex );
    }
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/DateToXmlGregorianCalendar.ftl
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```
<#-- @ftlvariable name="" type="org.mapstruct.ap.internal.model.ServicesEntry" -->
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-->
${implementationPackage}.${implementationName}
```

Found
 in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/ServicesEntry.ftl
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-->

```
private XMLGregorianCalendar
 ${name}( DateTime dt ) {
  if ( dt == null ) {
     return null;
  }

  try {
     return DatatypeFactory.newInstance().newXMLGregorianCalendar(
        dt.getYear(),
        dt.getMonthOfYear(),
        dt.getDayOfMonth(),
        dt.getHourOfDay(),
        dt.getMinuteOfHour(),
        dt.getSecondOfMinute(),
        dt.getMillisOfSecond(),
        dt.getZone().getOffset( null ) / 60000 );
  }
  catch ( DatatypeConfigurationException ex ) {
     throw new RuntimeException( ex );
  }
}
```

Found in path(s):
* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/source/builtin/JodaDateTimeToXmlGregorianCalendar.ftl
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* /mapstruct-processor-1-2-0-final-sources-3-jar/org/mapstruct/ap/internal/model/GeneratedType.ftl

1.26 mapstruct-jdk8 1.2.0.Final

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*/
```

Found in path(s):
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Context.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/CollectionMappingStrategy.java
*
 /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/factory/Mappers.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Mapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/ValueMappings.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MappingTarget.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/IterableMapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/InheritConfiguration.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MappingInheritanceStrategy.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/InheritInverseConfiguration.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Qualifier.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/NullValueCheckStrategy.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/NullValueMappingStrategy.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Mapper.java
*
 /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/AfterMapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/TargetType.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/factory/package-info.java

* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Mappings.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/ValueMapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/ObjectFactory.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/Named.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/ReportingPolicy.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/util/Experimental.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MappingConstants.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/package-info.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MapperConfig.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/BeanMapping.java
*
/mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/MapMapping.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/DecoratedWith.java
* /mapstruct-jdk8-1-2-0-final-sources-2-jar/org/mapstruct/BeforeMapping.java
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1.27 error_prone_annotations 2.5.1

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1.28 paranamer 2.8

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* /paranamer-2-8-sources-5-jar/com/thoughtworks/paranamer/AdaptiveParanamer.java
* /paranamer-2-8-sources-5-jar/com/thoughtworks/paranamer/CachingParanamer.java
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1.29 opencensus-proto 0.2.0

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1.30 args4j 2.0.28

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1.31 jsoup 1.14.2

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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/AbstractSessionContext.java
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 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/TrustedCertificateIndex.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/SSLServerSessionCache.java
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* Note: Many methods in this class take a reference to a Java object that holds a
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java8ExtendedSSLSession.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java8EngineSocket.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OAEPParameters.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java9PlatformUtil.java
*
 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java7ExtendedSSLSession.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Internal.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/HandshakeListener.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java8FileDescriptorSocket.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java8PlatformUtil.java
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*
 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/KeyManagerImpl.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/SSLParametersImpl.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OkHostnameVerifier.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLAeadCipherAES.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLEvpCipher.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLEvpCipherDESEDE.java
*
 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLAeadCipher.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLEvpCipherARC4.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OidData.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLAeadCipherChaCha20.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLMac.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAPrivateCrtKey.java
*
 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAKeyFactory.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECPrivateKey.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECPointContext.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLX509Certificate.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLCipherRSA.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/CertPinManager.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAPublicKey.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAKeyPairGenerator.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECKeyPairGenerator.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRandom.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLRSAPrivateKey.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLSignatureRawRSA.java
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 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECPublicKey.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLBIOInputStream.java

* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ChainStrengthAnalyzer.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECGroupContext.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ConscryptCertStore.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLX509CRLEntry.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLX509CRL.java
*
/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLECDHKeyAgreement.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLProvider.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLSocketImpl.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ct/CTConstants.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ct/Serialization.java
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/conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ct/SignedCertificateTimestamp.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/BufferAllocator.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ExperimentalApi.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/SessionSnapshot.java
*
 /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Java8EngineWrapper.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ExternalSession.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/AbstractConscryptEngine.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/AbstractConscryptSocket.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ConscryptFileDescriptorSocket.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Conscrypt.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/PeerInfoProvider.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/Preconditions.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLSignatureRawECDSA.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/KeyGeneratorImpl.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ApplicationProtocolSelectorAdapter.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/OpenSSLCipherChaCha20.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ApplicationProtocolSelector.java
* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ConscryptSession.java
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* /conscrypt-openjdk-uber-2-5-2-sources-jar/org/conscrypt/ECParameters.java
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1.33 lodash-es 4.17.21

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1.35 ganymed-ssh2 262

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1.36 stateless4j 2.5.0

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1.37 java-sizeof 0.0.5

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1.38 jakarta-inject-api 2.0.1

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1.39 core-js 2.5.4

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1.41 jakarta-transaction-api 2.0.1

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* https://github.com/eclipse-ee4j/jpa-api

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None

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1.43 jakarta-validation-api 3.0.2

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~
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-->
<![CDATA[
Comments to: bean-validation-dev@eclipse.org.
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* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ValidateUnwrappedValue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ValidateOnExecution.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertTrue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDefinitionException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Positive.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Digits.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Min.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/package-info.java
*

/jakarta-validation-api-3-0-2-sources-jar/module-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CascadableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ExecutableDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Configuration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/Default.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupDefinitionException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/FutureOrPresent.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotBlank.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMin.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ConstraintDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Payload.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/BootstrapState.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ParameterNameProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/Scope.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationProviderResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NegativeOrZero.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotEmpty.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ExtractedValue.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/ValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/UnexpectedTypeException.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/CrossParameterDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/PropertyDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/BootstrapConfiguration.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/GroupConversionDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ReturnValueDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/GenericBootstrap.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/AssertFalse.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/Unwrapping.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ReportAsSingleViolation.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ParameterDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Constraint.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/TraversableResolver.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/NoProviderFoundException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Null.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ValidationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Path.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Validation.java
* /jakarta-validation-api-3-0-2-sources-
jar/jakarta/validation/valueextraction/ValueExtractorDefinitionException.java

*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorFactory.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Max.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PastOrPresent.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Negative.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Validator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerElementTypeDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ConstructorDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintDeclarationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Email.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Pattern.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ElementKind.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/NotNull.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ElementDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Past.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ClockProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Size.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/PositiveOrZero.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/ProviderSpecificBootstrap.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/Future.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/DecimalMax.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/GroupSequence.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/ConfigurationState.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/BeanDescriptor.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/ConvertGroup.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/spi/ValidationProvider.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/MessageInterpolator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/bootstrap/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/ValueExtractor.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/groups/package-info.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidatorContext.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintViolation.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraintvalidation/SupportedValidationTarget.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/valueextraction/UnwrapByDefault.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/Valid.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/OverridesAttribute.java
* /jakarta-validation-api-3-0-2-sources-
jar/jakarta/validation/valueextraction/ValueExtractorDeclarationException.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/ConstraintValidator.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/constraints/package-info.java

* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/executable/ExecutableType.java
*
/jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/MethodType.java
* /jakarta-validation-api-3-0-2-sources-jar/jakarta/validation/metadata/ContainerDescriptor.java

1.44 listenablefuture 9999.0-empty-to-avoid-conflict-with-guava

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1.59 re2j 1.7

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* /re2j-1-7-sources-jar/com/google/re2j/Characters.java
* /re2j-1-7-sources-jar/com/google/re2j/RE2.java
* /re2j-1-7-sources-jar/com/google/re2j/MachineInput.java

* /re2j-1-7-sources-jar/com/google/re2j/Unicode.java
* /re2j-1-7-sources-jar/com/google/re2j/CharGroup.java
* /re2j-1-7-sources-jar/com/google/re2j/Parser.java
* /re2j-1-7-sources-jar/com/google/re2j/super/com/google/re2j/Characters.java
* /re2j-1-7-sources-jar/com/google/re2j/Simplify.java
* /re2j-1-7-sources-jar/com/google/re2j/Utils.java
* /re2j-1-7-sources-jar/com/google/re2j/CharClass.java
* /re2j-1-7-sources-jar/com/google/re2j/Regexp.java
* /re2j-1-7-sources-jar/com/google/re2j/Machine.java
*
/re2j-1-7-sources-jar/com/google/re2j/Pattern.java
* /re2j-1-7-sources-jar/com/google/re2j/Compiler.java
* /re2j-1-7-sources-jar/com/google/re2j/Matcher.java
* /re2j-1-7-sources-jar/com/google/re2j/PatternSyntaxException.java
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1.60 bouncycastle-fips 2.0.0

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1.63 animal-sniffer-annotation 1.23

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* /animal-sniffer-annotations-1-23-1-jar/META-INF/maven/org.codehaus.mojo/animal-sniffer-annotations/pom.xml

1.64 antlr 4.13.0

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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "(<id>) <text>"

report(location, message, type) ::= "<type>(<message.id>): <location> <message.text>"

wantsSingleLineMessage() ::= "false"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
*  For now, a simple string match used on x.y of x.y.z scheme.
*  Must match Tool.VERSION during load to templates.
*
*  REQUIRED.
*/

javascriptTypeInitMap ::= [
 "bool":"false",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"{}" // anything
 other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
<if(file.genListener)>
import <file.grammarName>Listener from './<file.grammarName>Listener.js';
<endif>
<if(file.genVisitor)>
import <file.grammarName>Visitor from './<file.grammarName>Visitor.js';
<endif>

<namedActions.header>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';
```

```
// This class defines a complete listener for a parse tree produced by <file.parserName>.
export default class <file.grammarName>Listener extends antlr4.tree.ParseTreeListener {

<file.listenerNames:{lname |
 // Enter a parse tree produced by <file.parserName>#<lname>.
 enter<lname; format="cap">(ctx) {
 \}

 // Exit a parse tree produced by <file.parserName>#<lname>.
 exit<lname;
 format="cap">(ctx) {
 \}

}; separator="\n">

}
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
import antlr4 from 'antlr4';

// This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

export default class <file.grammarName>Visitor extends antlr4.tree.ParseTreeVisitor {

<file.visitorNames:{lname |
 // Visit a parse tree produced by <file.parserName>#<lname>.
 visit<lname; format="cap">(ctx) {
   return this.visitChildren(ctx);
 \}

}; separator="\n">

}
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// jshint ignore: start
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';
```

```
<endif>

<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds,
 index) );

const sharedContextCache = new antlr4.atn.PredictionContextCache();

export default class <parser.name> extends <superClass; null="antlr4.Parser"> {

  static grammarFileName = "<parser.grammarFileName>";
  static literalNames = [ <parser.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
  static ruleNames = [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
      super(input);
      this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);
      this.ruleNames = <parser.name>.ruleNames;
      this.literalNames = <parser.name>.literalNames;
      this.symbolicNames = <parser.name>.symbolicNames;
      <namedActions.members>
  }

  <if(sempredFuncs)>
  sempred(localctx, ruleIndex, predIndex) {
   switch(ruleIndex) {
   <parser.sempredFuncs.values:{f
| case <f.ruleIndex>:
    return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
      default:
          throw "No predicate with index:" + ruleIndex;
     }
  }

  <sempredFuncs.values; separator="\n">
  <endif>

 <funcs; separator="\n">

}

<parser.name>.EOF = antlr4.Token.EOF;
<if(parser.tokens)>
<parser.tokens:{k | <parser.name>.<k> = <parser.tokens.(k)>;}; separator="\n", wrap, anchor>
```

```
<endif>

<if(parser.rules)>
<parser.rules:{r | <parser.name>.RULE_<r.name> = <r.index>;}; separator="\n", wrap, anchor>
<endif>

<funcs:{f | <ruleContexts(f)>}; separator="\n">

<! Define fields of this parser to export the context classes !>
<parser.funcs:{f | <parser.name>.<f.ctxType> = <f.ctxType>; }; separator="\n">

>>

ruleContexts(currentRule) ::= <<
<currentRule.ruleCtx>

<currentRule.altLabelCtxs:{l | <currentRule.altLabelCtxs.(l)>}; separator="\n">
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
<lexer.name>.prototype.action
 = function(localctx, ruleIndex, actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 this.<f.name>_action(localctx, actionIndex);
 break;}; separator="\n">
 default:
  throw "No registered action for:" + ruleIndex;
 }
};

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
<lexer.name>.prototype.sempred = function(localctx, ruleIndex, predIndex) {
 switch (ruleIndex) {
  <recog.sempredFuncs.values:{f| case <f.ruleIndex>:
 return this.<f.name>_sempred(localctx, predIndex);}; separator="\n">
    default:
     throw "No registered predicate for:" + ruleIndex;
   }
};

<sempredFuncs.values; separator="\n">
<endif>
>>
```

```
/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

<lexer.name>.prototype.<r.name>_action = function(localctx , actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;};
 separator="\n">
 default:
  throw "No registered action for:" + actionIndex;
 }
};
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
<if (r.factory.g.lexer)><lexer.name>.prototype.<r.name>_sempred =
function<else><r.name>_sempred<endif>(localctx, predIndex) {
 switch(predIndex) {
  <actions:{index| case <index>:
 return <actions.(index)>;}; separator="\n">
  default:
   throw "No predicate with index:" + predIndex;
 }
};

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<


<currentRule.escapedName>(<currentRule.args:{a | <a.escapedName>}; separator=", ">) {
  let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.escapedName>}>);
  this.enterRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>);
   <namedActions.init>
  <locals; separator="\n">
  try {
      <code>
      <postamble; separator="\n">
```

```
    <namedActions.after>
  }<if(exceptions)>
  <exceptions; separator="\n">
  <else> catch (re) {
   if(re instanceof antlr4.error.RecognitionException) {
       localctx.exception = re;
       this._errHandler.reportError(this, re);
       this._errHandler.recover(this, re);
    } else {
     throw re;
    }
  }<endif> finally {
     <finallyAction>
     this.exitRule();
  }
  return localctx;
}

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<currentRule.escapedName>(_p<if(currentRule.args)>, <args:{a | , <a>}><endif>) {
 if(_p===undefined) {
    _p = 0;
 }
  const _parentctx = this._ctx;
  const _parentState = this.state;
  let localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{a | , <a.escapedName>}>);
  let _prevctx
 = localctx;
  const _startState = <currentRule.startState>;
  this.enterRecursionRule(localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p);
  <namedActions.init>
  <locals; separator="\n">
  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  } catch( error) {
     if(error instanceof antlr4.error.RecognitionException) {
       localctx.exception = error;
       this._errHandler.reportError(this, error);
       this._errHandler.recover(this, error);
    } else {
     throw error;
```

```
    }
  } finally {
      <finallyAction>
      this.unrollRecursionContexts(_parentctx)
  }
  return localctx;
}

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(this, localctx);<endif>
this.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock,
 ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = this._input.LT(1);<endif>
<preamble; separator="\n">
switch(this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  break;}; separator="\n">
default:
  <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
switch (this._input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
```

```
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
if(<expr>)
 {
   <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<preamble; separator="\n">
while(<loopExpr>) {
   <alts; separator="\n">
   this.state = <choice.loopBackStateNumber>;
   this._errHandler.sync(this);
   <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
<preamble; separator="\n">
do {
   <alts; separator="\n">
   this.state = <choice.stateNumber>; <! loopback/exit decision !>
   this._errHandler.sync(this);
   <iteration>
} while(<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
var
 la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
switch(la_) {
<alts:{alt |
```

```
case <i>:
  <alt>
  break;
}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var la_ = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
<alts:{alt |
if(la_===<i><if(!choice.ast.greedy)>+1<endif>) {
  <alt>
}; separator="\n} else ">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
this.state = <choice.stateNumber>;
this._errHandler.sync(this);
var _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx)
while(_alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER) {
  if(_alt===1<if(!choice.ast.greedy)>+1<endif>) {
    <iteration>
    <alts> <! should only be one !>
  }
  this.state = <choice.loopBackStateNumber>;
  this._errHandler.sync(this);
  _alt = this._interp.adaptivePredict(this._input,<choice.decision>,this._ctx);
}

>>

PlusBlock(choice,
 alts, error) ::= <<
this.state = <choice.blockStartStateNumber>; <! alt block decision !>
this._errHandler.sync(this);
var _alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
```

```
 this.state = <choice.loopBackStateNumber>; <! loopback/exit decision !>
 this._errHandler.sync(this);
 _alt = this._interp.adaptivePredict(this._input,<choice.decision>, this._ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=antlr4.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "throw new antlr4.error.NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Javascript language spec - shift operators are 32 bits long max
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>)
 & ~0x1f) === 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>===<t.type>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <t.type>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
```

```
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>);
>>

MatchToken(m) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>this.match(<parser.name>.<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
this.state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>this._input.LT(1);<endif>
<capture>
<if(invert)>if(<m.varName>\<=0 || <expr>)<else>if(!(<expr>))<endif> {
   <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>this._errHandler.recoverInline(this);
}
else {
 this._errHandler.reportMatch(this);
   this.consume();
}
>>

Wildcard(w) ::= <<
this.state = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>this.matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
this.state = <p.stateNumber>;
if (!( <chunks>)) {
   throw new antlr4.error.FailedPredicateException(this,
 <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>, <p.msg><endif>);
}
>>
```

```
ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "this.skip();"
LexerMoreCommand()  ::= "this.more();"
LexerPopModeCommand() ::= "this.popMode();"
LexerTypeCommand(arg, grammar)      ::= "this._type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "this._channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "this._mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "this.pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::=
 "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> == null ? null : <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> == null ? 0 : parseInt(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label> == null ? null : <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> == null ? null : this._input.getText(new
antlr4.Interval(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop)))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"
```

```
ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "this._input.getText(new antlr4.Interval(localctx.start, this._input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)     ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "this.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.push(<labelref(a.label)>);"

TokenDecl(t) ::= "this.<t.escapedName> = null;"
TokenTypeDecl(t) ::= "var <t.escapedName> = 0;"
TokenListDecl(t)
 ::= "this.<t.escapedName> = [];"
RuleContextDecl(r) ::= "this.<r.escapedName> = null;"
RuleContextListDecl(rdecl) ::= "this.<rdecl.escapedName> = [];"

ContextTokenGetterDecl(t)      ::= <<
<t.escapedName>() {
  return this.getToken(<parser.name>.<t.name>, 0);
};
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
<t.escapedName>_list() {
  return this.getTokens(<parser.name>.<t.name>);
}
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
<t.escapedName> = function(i) {
 if(i===undefined) {
  i = null;
 }
  if(i===null) {
     return this.getTokens(<parser.name>.<t.name>);
  } else {
     return this.getToken(<parser.name>.<t.name>, i);
  }
};

>>

ContextRuleGetterDecl(r)       ::= <<
<r.escapedName>() {
  return this.getTypedRuleContext(<r.ctxName>,0);
```

```
};
>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
<r.escapedName>_list() {
  return this.getTypedRuleContexts(<parser.name>.<r.ctxName>);
}
>>

ContextRuleListIndexedGetterDecl(r)
  ::= <<
<r.escapedName> = function(i) {
  if(i===undefined) {
     i = null;
  }
  if(i===null) {
     return this.getTypedRuleContexts(<r.ctxName>);
  } else {
     return this.getTypedRuleContext(<r.ctxName>,i);
  }
};
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = this._input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

  constructor(parser, parent, invokingState<struct.ctorAttrs:{a
| , <a.escapedName>}>) {
     if(parent===undefined) {
        parent = null;
     }
```

```
      if(invokingState===undefined || invokingState===null) {
         invokingState = -1;
      }
      super(parent, invokingState);
      this.parser = parser;
      this.ruleIndex = <parser.name>.RULE_<struct.derivedFromName>;
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName> || null;}; separator="\n">
   }

 <getters:{g | <g>}; separator="\n\n">

 <if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 copyFrom(ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">

}

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName> extends <struct.parentRule; format="cap">Context {

   constructor(parser, ctx) {

      super(parser);
      <attrs:{a | <a>;}; separator="\n">
      super.copyFrom(ctx);
   }

 <getters:{g | <g>}; separator="\n\n">

 <dispatchMethods; separator="\n">

}

<! Define fields of this parser to export this struct/context class !>
<parser.name>.<struct.name> = <struct.escapedName>;

>>

ListenerDispatchMethod(method) ::= <<
<if(method.isEnter)>enter<else>exit<endif>Rule(listener) {
```

```
  if(listener instanceof <parser.grammarName>Listener ) {
     listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(this);
 }
}

>>

VisitorDispatchMethod(method) ::= <<
accept(visitor) {
  if ( visitor instanceof <parser.grammarName>Visitor ) {
     return visitor.visit<struct.derivedFromName; format="cap">(this);
  } else {
     return visitor.visitChildren(this);
  }
}

>>

AttributeDecl(d) ::= "this.<d.escapedName> = <if(d.initValue)><d.initValue><else>null<endif>"

/** If we don't know location of label def x, use this template */
labelref(x)
 ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "this.precpred(this._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "this._ctx.stop = this._input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label> = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = new <currentAltLabel; format="cap">Context(this, new <ruleName; format="cap">Context(this,
_parentctx, _parentState));
<if(label)>
```

```
<if(isListLabel)>
localctx.<label>.push(_prevctx);
<else>
localctx.<label>
 = _prevctx;
<endif>
<endif>
this.pushNewRecursionContext(localctx, _startState, <parser.name>.RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = new <ctxName>Context(this, localctx);
this._ctx = localctx;
_prevctx = localctx;
>>

recRuleSetPrevCtx() ::= <<
if(this._parseListeners!==null) {
   this.triggerExitRuleEvent();
}
_prevctx = localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
import antlr4 from 'antlr4';

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
import <superClass> from './<superClass>.js';

<endif>
<atn>

const atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);

const decisionsToDFA = atn.decisionToState.map( (ds, index) => new antlr4.dfa.DFA(ds, index) );

export default class <lexer.name> extends <if(superClass)><superClass><else>antlr4.Lexer<endif>
 {
```

```
  static grammarFileName = "<lexer.grammarFileName>";
  static channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| "<c>"}; separator=", ", wrap, anchor><endif> ];
 static modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ];
 static literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];
 static ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ];

  constructor(input) {
     super(input)
     this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.atn.PredictionContextCache());
     <namedActions.members>
  }
}

<lexer.name>.EOF = antlr4.Token.EOF;
<if(lexer.tokens)>
<lexer.tokens:{k | <lexer.name>.<k> = <lexer.tokens.(k)>;}; separator="\n", wrap, anchor>
<endif>

<if(lexer.escapedChannels)>
<lexer.escapedChannels:{c|
 <lexer.name>.<c> = <lexer.escapedChannels.(c)>;}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
<rest(lexer.escapedModeNames):{m| <lexer.name>.<m> = <i>;}; separator="\n">

<endif>

<dumpActions(lexer, "", actionFuncs, sempredFuncs)>


>>

SerializedATN(model) ::= <<
const serializedATN = [<model.serialized: {s | <s>}; separator=",", wrap>];

>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javacriptTypeInitMap.(typeName)>
>>
```

codeFileExtension() ::= ".js"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
No license file was found, but licenses were detected in source scan.

/*
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the format that mimicks GCC output.
*/

location(file, line, column) ::= "<file>:<line>:<column>:"

message(id, text) ::= "<text> [error <id>]"

report(location, message, type) ::= "<location> <type>: <message>"

wantsSingleLineMessage() ::= "true"

Found in path(s):

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
No license file was found, but licenses were detected in source scan.

```
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*/

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.
*  Parses trees created by ANTLRParser.g.
*
*  Rather than have multiple tree grammars, one for each visit, I'm
*  creating this generic visitor that knows about context. All of the
*  boilerplate pattern recognition is done here. Then, subclasses can
*  override the methods they care about.
 This prevents a lot of the same
*  context tracking stuff like "set current alternative for current
*  rule node" that is repeated in lots of tree filters.
*/
tree grammar GrammarTreeVisitor;
options {
 language      = Java;
```

```
 tokenVocab    = ANTLRParser;
 ASTLabelType  = GrammarAST;
}

// Include the copyright in this source and also the generated source
@header {
/*
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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
package org.antlr.v4.parse;
import org.antlr.v4.Tool;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.lang.reflect.InvocationTargetException;
import java.lang.reflect.Method;
}

@members
 {
public String grammarName;
public GrammarAST currentRuleAST;
public String currentModeName = LexerGrammar.DEFAULT_MODE_NAME;
```

```
public String currentRuleName;
public GrammarAST currentOuterAltRoot;
public int currentOuterAltNumber = 1; // 1..n
public int rewriteEBNFLevel = 0;

public GrammarTreeVisitor() { this(null); }

// Should be abstract but can't make gen'd parser abstract;
// subclasses should implement else everything goes to stderr!
public ErrorManager getErrorManager() { return null; }

public void visitGrammar(GrammarAST t) { visit(t, "grammarSpec"); }
public void visit(GrammarAST t, String ruleName) {
 CommonTreeNodeStream nodes = new CommonTreeNodeStream(new GrammarASTAdaptor(), t);
 setTreeNodeStream(nodes);
 try {
  Method m = getClass().getMethod(ruleName);
  m.invoke(this);
 }
 catch (Throwable e) {
  ErrorManager errMgr = getErrorManager();
  if ( e instanceof InvocationTargetException ) {
   e = e.getCause();
  }
  //e.printStackTrace(System.err);
  if
 ( errMgr==null ) {
   System.err.println("can't find rule "+ruleName+
         " or tree structure error: "+t.toStringTree()
         );
   e.printStackTrace(System.err);
  }
  else errMgr.toolError(ErrorType.INTERNAL_ERROR, e);
 }
}

public void discoverGrammar(GrammarRootAST root, GrammarAST ID) { }
public void finishPrequels(GrammarAST firstPrequel) { }
public void finishGrammar(GrammarRootAST root, GrammarAST ID) { }

public void grammarOption(GrammarAST ID, GrammarAST valueAST) { }
public void ruleOption(GrammarAST ID, GrammarAST valueAST) { }
public void blockOption(GrammarAST ID, GrammarAST valueAST) { }
public void defineToken(GrammarAST ID) { }
public void defineChannel(GrammarAST ID) { }
public void globalNamedAction(GrammarAST scope, GrammarAST ID, ActionAST action) { }
public void importGrammar(GrammarAST label, GrammarAST ID) { }
```

```
public void modeDef(GrammarAST m, GrammarAST ID) { }

public void discoverRules(GrammarAST rules) { }
public void finishRules(GrammarAST
 rule) { }
public void discoverRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers,
      ActionAST arg, ActionAST returns, GrammarAST thrws,
      GrammarAST options, ActionAST locals,
      List<GrammarAST> actions,
      GrammarAST block) { }
public void finishRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void discoverLexerRule(RuleAST rule, GrammarAST ID, List<GrammarAST> modifiers, GrammarAST
options,
                  GrammarAST block) { }
public void finishLexerRule(RuleAST rule, GrammarAST ID, GrammarAST block) { }
public void ruleCatch(GrammarAST arg, ActionAST action) { }
public void finallyAction(ActionAST action) { }
public void discoverOuterAlt(AltAST alt) { }
public void finishOuterAlt(AltAST alt) { }
public void discoverAlt(AltAST alt) { }
public void finishAlt(AltAST alt) { }

public void ruleRef(GrammarAST ref, ActionAST arg) { }
public void tokenRef(TerminalAST ref) { }
public void elementOption(GrammarASTWithOptions t,
 GrammarAST ID, GrammarAST valueAST) { }
public void stringRef(TerminalAST ref) { }
public void wildcardRef(GrammarAST ref) { }
public void actionInAlt(ActionAST action) { }
public void sempredInAlt(PredAST pred) { }
public void label(GrammarAST op, GrammarAST ID, GrammarAST element) { }
public void lexerCallCommand(int outerAltNumber, GrammarAST ID, GrammarAST arg) { }
public void lexerCommand(int outerAltNumber, GrammarAST ID) { }

protected void enterGrammarSpec(GrammarAST tree) { }
protected void exitGrammarSpec(GrammarAST tree) { }

protected void enterPrequelConstructs(GrammarAST tree) { }
protected void exitPrequelConstructs(GrammarAST tree) { }

protected void enterPrequelConstruct(GrammarAST tree) { }
protected void exitPrequelConstruct(GrammarAST tree) { }

protected void enterOptionsSpec(GrammarAST tree) { }
protected void exitOptionsSpec(GrammarAST tree) { }

protected void enterOption(GrammarAST tree) { }
protected void exitOption(GrammarAST tree) { }
```

```
protected void enterOptionValue(GrammarAST
 tree) { }
protected void exitOptionValue(GrammarAST tree) { }

protected void enterDelegateGrammars(GrammarAST tree) { }
protected void exitDelegateGrammars(GrammarAST tree) { }

protected void enterDelegateGrammar(GrammarAST tree) { }
protected void exitDelegateGrammar(GrammarAST tree) { }

protected void enterTokensSpec(GrammarAST tree) { }
protected void exitTokensSpec(GrammarAST tree) { }

protected void enterTokenSpec(GrammarAST tree) { }
protected void exitTokenSpec(GrammarAST tree) { }

protected void enterChannelsSpec(GrammarAST tree) { }
protected void exitChannelsSpec(GrammarAST tree) { }

protected void enterChannelSpec(GrammarAST tree) { }
protected void exitChannelSpec(GrammarAST tree) { }

protected void enterAction(GrammarAST tree) { }
protected void exitAction(GrammarAST tree) { }

protected void enterRules(GrammarAST tree) { }
protected void exitRules(GrammarAST tree) { }

protected void enterMode(GrammarAST tree) { }
protected void exitMode(GrammarAST
 tree) { }

protected void enterLexerRule(GrammarAST tree) { }
protected void exitLexerRule(GrammarAST tree) { }

protected void enterRule(GrammarAST tree) { }
protected void exitRule(GrammarAST tree) { }

protected void enterExceptionGroup(GrammarAST tree) { }
protected void exitExceptionGroup(GrammarAST tree) { }

protected void enterExceptionHandler(GrammarAST tree) { }
protected void exitExceptionHandler(GrammarAST tree) { }

protected void enterFinallyClause(GrammarAST tree) { }
protected void exitFinallyClause(GrammarAST tree) { }
```

```
protected void enterLocals(GrammarAST tree) { }
protected void exitLocals(GrammarAST tree) { }

protected void enterRuleReturns(GrammarAST tree) { }
protected void exitRuleReturns(GrammarAST tree) { }

protected void enterThrowsSpec(GrammarAST tree) { }
protected void exitThrowsSpec(GrammarAST tree) { }

protected void enterRuleAction(GrammarAST tree) { }
protected void exitRuleAction(GrammarAST tree) { }

protected void enterRuleModifier(GrammarAST
 tree) { }
protected void exitRuleModifier(GrammarAST tree) { }

protected void enterLexerRuleBlock(GrammarAST tree) { }
protected void exitLexerRuleBlock(GrammarAST tree) { }

protected void enterRuleBlock(GrammarAST tree) { }
protected void exitRuleBlock(GrammarAST tree) { }

protected void enterLexerOuterAlternative(AltAST tree) { }
protected void exitLexerOuterAlternative(AltAST tree) { }

protected void enterOuterAlternative(AltAST tree) { }
protected void exitOuterAlternative(AltAST tree) { }

protected void enterLexerAlternative(GrammarAST tree) { }
protected void exitLexerAlternative(GrammarAST tree) { }

protected void enterLexerElements(GrammarAST tree) { }
protected void exitLexerElements(GrammarAST tree) { }

protected void enterLexerElement(GrammarAST tree) { }
protected void exitLexerElement(GrammarAST tree) { }

protected void enterLexerBlock(GrammarAST tree) { }
protected void exitLexerBlock(GrammarAST tree) { }

protected void enterLexerAtom(GrammarAST tree) { }
protected
 void exitLexerAtom(GrammarAST tree) { }

protected void enterActionElement(GrammarAST tree) { }
protected void exitActionElement(GrammarAST tree) { }

protected void enterAlternative(AltAST tree) { }
```

```
protected void exitAlternative(AltAST tree) { }

protected void enterLexerCommand(GrammarAST tree) { }
protected void exitLexerCommand(GrammarAST tree) { }

protected void enterLexerCommandExpr(GrammarAST tree) { }
protected void exitLexerCommandExpr(GrammarAST tree) { }

protected void enterElement(GrammarAST tree) { }
protected void exitElement(GrammarAST tree) { }

protected void enterAstOperand(GrammarAST tree) { }
protected void exitAstOperand(GrammarAST tree) { }

protected void enterLabeledElement(GrammarAST tree) { }
protected void exitLabeledElement(GrammarAST tree) { }

protected void enterSubrule(GrammarAST tree) { }
protected void exitSubrule(GrammarAST tree) { }

protected void enterLexerSubrule(GrammarAST tree) { }
protected void exitLexerSubrule(GrammarAST tree) { }

protected
 void enterBlockSuffix(GrammarAST tree) { }
protected void exitBlockSuffix(GrammarAST tree) { }

protected void enterEbnfSuffix(GrammarAST tree) { }
protected void exitEbnfSuffix(GrammarAST tree) { }

protected void enterAtom(GrammarAST tree) { }
protected void exitAtom(GrammarAST tree) { }

protected void enterBlockSet(GrammarAST tree) { }
protected void exitBlockSet(GrammarAST tree) { }

protected void enterSetElement(GrammarAST tree) { }
protected void exitSetElement(GrammarAST tree) { }

protected void enterBlock(GrammarAST tree) { }
protected void exitBlock(GrammarAST tree) { }

protected void enterRuleref(GrammarAST tree) { }
protected void exitRuleref(GrammarAST tree) { }

protected void enterRange(GrammarAST tree) { }
protected void exitRange(GrammarAST tree) { }
```

```
protected void enterTerminal(GrammarAST tree) { }
protected void exitTerminal(GrammarAST tree) { }

protected void enterElementOptions(GrammarAST tree) { }
protected void exitElementOptions(GrammarAST tree) {
 }

protected void enterElementOption(GrammarAST tree) { }
protected void exitElementOption(GrammarAST tree) { }

 @Override
 public void traceIn(String ruleName, int ruleIndex)  {
  System.err.println("enter "+ruleName+": "+input.LT(1));
 }

 @Override
 public void traceOut(String ruleName, int ruleIndex)  {
  System.err.println("exit "+ruleName+": "+input.LT(1));
 }
}

grammarSpec
@init {
 enterGrammarSpec($start);
}
@after {
 exitGrammarSpec($start);
}
   :  ^( GRAMMAR ID {grammarName=$ID.text;}
     {discoverGrammar((GrammarRootAST)$GRAMMAR, $ID);}
      prequelConstructs
     {finishPrequels($prequelConstructs.firstOne);}
      rules mode*
     {finishGrammar((GrammarRootAST)$GRAMMAR, $ID);}
   )
 ;

prequelConstructs returns [GrammarAST firstOne=null]
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 : {$firstOne=$start;} prequelConstruct+
 |
 ;
```

```
prequelConstruct
@init {
 enterPrequelConstructs($start);
}
@after {
 exitPrequelConstructs($start);
}
 :
   optionsSpec
   |  delegateGrammars
   |  tokensSpec
   |  channelsSpec
   |  action
   ;

optionsSpec
@init {
 enterOptionsSpec($start);
}
@after {
 exitOptionsSpec($start);
}
 : ^(OPTIONS option*)
   ;

option
@init {
 enterOption($start);
 boolean rule = inContext("RULE ...");
 boolean block = inContext("BLOCK ...");
}
@after {
 exitOption($start);
}
   :   ^(a=ASSIGN ID v=optionValue)
     {
    if ( block ) blockOption($ID, $v.start); // most specific first
    else if ( rule ) ruleOption($ID, $v.start);
    else grammarOption($ID, $v.start);
     }
   ;

optionValue returns [String v]
@init {
 enterOptionValue($start);
 $v = $start.token.getText();
}
@after {
```

```
 exitOptionValue($start);
}
  :  ID
  |  STRING_LITERAL
  |  INT
  ;

delegateGrammars
@init {
 enterDelegateGrammars($start);
}
@after {
 exitDelegateGrammars($start);
}
 :  ^(IMPORT delegateGrammar+)
 ;

delegateGrammar
@init {
 enterDelegateGrammar($start);
}
@after {
 exitDelegateGrammar($start);
}
   :  ^(ASSIGN label=ID id=ID) {importGrammar($label, $id);}
  |  id=ID     {importGrammar(null, $id);}
  ;

tokensSpec
@init {
 enterTokensSpec($start);
}
@after {
 exitTokensSpec($start);
}
 :  ^(TOKENS_SPEC tokenSpec+)
 ;

tokenSpec
@init {
 enterTokenSpec($start);
}
@after {
 exitTokenSpec($start);
}
 : ID    {defineToken($ID);}
 ;
```

```
channelsSpec
@init {
 enterChannelsSpec($start);
}
@after {
 exitChannelsSpec($start);
}
 :   ^(CHANNELS channelSpec+)
 ;

channelSpec
@init {
 enterChannelSpec($start);
}
@after {
 exitChannelSpec($start);
}
 : ID     {defineChannel($ID);}
 ;

action
@init {
 enterAction($start);
}
@after {
 exitAction($start);
}
 : ^(AT sc=ID? name=ID ACTION) {globalNamedAction($sc, $name, (ActionAST)$ACTION);}
 ;

rules
@init {
 enterRules($start);
}
@after {
 exitRules($start);
}
   : ^(RULES {discoverRules($RULES);} (rule|lexerRule)* {finishRules($RULES);})
   ;

mode
@init {
 enterMode($start);
}
@after {
 exitMode($start);
}
 : ^(
```

```
 MODE ID {currentModeName=$ID.text; modeDef($MODE, $ID);} lexerRule* )
 ;

lexerRule
@init {
 enterLexerRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 currentOuterAltNumber=0;
}
@after {
 exitLexerRule($start);
}
 : ^( RULE TOKEN_REF
   {currentRuleName=$TOKEN_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS m=FRAGMENT {mods.add($m);}))?
   opts=optionsSpec*
      {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, $opts.start, (GrammarAST)input.LT(1));}
      lexerRuleBlock
      {
      finishLexerRule((RuleAST)$RULE, $TOKEN_REF, $lexerRuleBlock.start);
      currentRuleName=null; currentRuleAST=null;
      }
      )
 ;

rule
@init {
 enterRule($start);
 List<GrammarAST> mods = new ArrayList<GrammarAST>();
 List<GrammarAST> actions = new ArrayList<GrammarAST>(); // track roots
 currentOuterAltNumber=0;
}
@after {
 exitRule($start);
}
 :   ^( RULE RULE_REF {currentRuleName=$RULE_REF.text; currentRuleAST=$RULE;}
   (^(RULEMODIFIERS (m=ruleModifier{mods.add($m.start);})+))?
   ARG_ACTION?
       ret=ruleReturns?
      thr=throwsSpec?
      loc=locals?
      ( opts=optionsSpec
     |   a=ruleAction {actions.add($a.start);}
     )*
      {discoverRule((RuleAST)$RULE, $RULE_REF, mods, (ActionAST)$ARG_ACTION,
          $ret.start!=null?(ActionAST)$ret.start.getChild(0):null,
          $thr.start, $opts.start,
          $loc.start!=null?(ActionAST)$loc.start.getChild(0):null,
```

```
            actions, (GrammarAST)input.LT(1));}
        ruleBlock exceptionGroup
        {finishRule((RuleAST)$RULE, $RULE_REF, $ruleBlock.start); currentRuleName=null; currentRuleAST=null;}
        )
    ;

exceptionGroup
@init {
 enterExceptionGroup($start);
}
@after {
 exitExceptionGroup($start);
}
    : exceptionHandler* finallyClause?
    ;

exceptionHandler
@init {
 enterExceptionHandler($start);
}
@after {
 exitExceptionHandler($start);
}
 : ^(CATCH ARG_ACTION ACTION) {ruleCatch($ARG_ACTION, (ActionAST)$ACTION);}
 ;

finallyClause
@init
 {
 enterFinallyClause($start);
}
@after {
 exitFinallyClause($start);
}
 : ^(FINALLY ACTION)    {finallyAction((ActionAST)$ACTION);}
 ;

locals
@init {
 enterLocals($start);
}
@after {
 exitLocals($start);
}
 : ^(LOCALS ARG_ACTION)
 ;

ruleReturns
```

```
@init {
 enterRuleReturns($start);
}
@after {
 exitRuleReturns($start);
}
 : ^(RETURNS ARG_ACTION)
 ;

throwsSpec
@init {
 enterThrowsSpec($start);
}
@after {
 exitThrowsSpec($start);
}
   : ^(THROWS ID+)
   ;

ruleAction
@init {
 enterRuleAction($start);
}
@after {
 exitRuleAction($start);
}
 : ^(AT ID ACTION)
 ;

ruleModifier
@init {
 enterRuleModifier($start);
}
@after {
 exitRuleModifier($start);
}
   : PUBLIC
   | PRIVATE
   | PROTECTED
   | FRAGMENT
   ;

lexerRuleBlock
@init {
 enterLexerRuleBlock($start);
}
@after {
 exitLexerRuleBlock($start);
```

```
}
  : ^( BLOCK
    ( {
     currentOuterAltRoot = (GrammarAST)input.LT(1);
   currentOuterAltNumber++;
   }
     lexerOuterAlternative
    )+
   )
  ;

ruleBlock
@init
 {
 enterRuleBlock($start);
}
@after {
 exitRuleBlock($start);
}
  : ^( BLOCK
    ( {
     currentOuterAltRoot = (GrammarAST)input.LT(1);
   currentOuterAltNumber++;
   }
     outerAlternative
    )+
   )
  ;

lexerOuterAlternative
@init {
 enterLexerOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
 finishOuterAlt((AltAST)$start);
 exitLexerOuterAlternative((AltAST)$start);
}
 : lexerAlternative
 ;


outerAlternative
@init {
 enterOuterAlternative((AltAST)$start);
 discoverOuterAlt((AltAST)$start);
}
@after {
```

```
 finishOuterAlt((AltAST)$start);
 exitOuterAlternative((AltAST)$start);
}
 : alternative
 ;

lexerAlternative
@init {
 enterLexerAlternative($start);
}
@after {
 exitLexerAlternative($start);
}
 : ^(LEXER_ALT_ACTION lexerElements lexerCommand+)
   |   lexerElements
   ;

lexerElements
@init {
 enterLexerElements($start);
}
@after {
 exitLexerElements($start);
}
   : ^(ALT lexerElement+)
   ;

lexerElement
@init {
 enterLexerElement($start);
}
@after
 {
 exitLexerElement($start);
}
 : lexerAtom
 | lexerSubrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED      {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
 ;

lexerBlock
@init {
 enterLexerBlock($start);
}
```

```
@after {
 exitLexerBlock($start);
}
 : ^(BLOCK optionsSpec? lexerAlternative+)
   ;

lexerAtom
@init {
 enterLexerAtom($start);
}
@after {
 exitLexerAtom($start);
}
   :   terminal
   |   ^(NOT blockSet)
   |   blockSet
   |   ^(WILDCARD elementOptions)
   |   WILDCARD
   | LEXER_CHAR_SET
   |   range
   |   ruleref
   ;

actionElement
@init {
 enterActionElement($start);
}
@after {
 exitActionElement($start);
}
 : ACTION
 |   ^(ACTION elementOptions)
 |   SEMPRED
 |   ^(SEMPRED elementOptions)
 ;

alternative
@init {
 enterAlternative((AltAST)$start);
 discoverAlt((AltAST)$start);
}
@after {
 finishAlt((AltAST)$start);
 exitAlternative((AltAST)$start);
}
 : ^(ALT
 elementOptions? element+)
 | ^(ALT elementOptions? EPSILON)
```

```
  ;

lexerCommand
@init {
 enterLexerCommand($start);
}
@after {
 exitLexerCommand($start);
}
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
      {lexerCallCommand(currentOuterAltNumber, $ID, $lexerCommandExpr.start);}
 | ID
      {lexerCommand(currentOuterAltNumber, $ID);}
 ;

lexerCommandExpr
@init {
 enterLexerCommandExpr($start);
}
@after {
 exitLexerCommandExpr($start);
}
 : ID
 | INT
 ;

element
@init {
 enterElement($start);
}
@after {
 exitElement($start);
}
 : labeledElement
 | atom
 | subrule
 |   ACTION      {actionInAlt((ActionAST)$ACTION);}
 |   SEMPRED     {sempredInAlt((PredAST)$SEMPRED);}
 |   ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | range
 | ^(NOT blockSet)
 | ^(NOT block)
 ;

astOperand
@init {
 enterAstOperand($start);
```

```
}
@after {
 exitAstOperand($start);
}
 : atom
 | ^(NOT
 blockSet)
 | ^(NOT block)
 ;

labeledElement
@init {
 enterLabeledElement($start);
}
@after {
 exitLabeledElement($start);
}
 : ^((ASSIGN|PLUS_ASSIGN) ID element) {label($start, $ID, $element.start);}
 ;

subrule
@init {
 enterSubrule($start);
}
@after {
 exitSubrule($start);
}
 : ^(blockSuffix block)
 | block
   ;

lexerSubrule
@init {
 enterLexerSubrule($start);
}
@after {
 exitLexerSubrule($start);
}
 : ^(blockSuffix lexerBlock)
 | lexerBlock
   ;

blockSuffix
@init {
 enterBlockSuffix($start);
}
@after {
 exitBlockSuffix($start);
```

```
}
  : ebnfSuffix
  ;

ebnfSuffix
@init {
 enterEbnfSuffix($start);
}
@after {
 exitEbnfSuffix($start);
}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

atom
@init {
 enterAtom($start);
}
@after {
 exitAtom($start);
}
 : ^(DOT ID terminal)
 | ^(DOT ID ruleref)
   | ^(WILDCARD elementOptions) {wildcardRef($WILDCARD);}
   | WILDCARD     {wildcardRef($WILDCARD);}
   |   terminal
   | blockSet
   |   ruleref
   ;

blockSet
@init
 {
 enterBlockSet($start);
}
@after {
 exitBlockSet($start);
}
 : ^(SET setElement+)
 ;

setElement
@init {
 enterSetElement($start);
}
@after {
```

```
 exitSetElement($start);
}
 : ^(STRING_LITERAL elementOptions)    {stringRef((TerminalAST)$STRING_LITERAL);}
 | ^(TOKEN_REF elementOptions)   {tokenRef((TerminalAST)$TOKEN_REF);}
 | STRING_LITERAL                {stringRef((TerminalAST)$STRING_LITERAL);}
 | TOKEN_REF                     {tokenRef((TerminalAST)$TOKEN_REF);}
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  {
  stringRef((TerminalAST)$a);
  stringRef((TerminalAST)$b);
  }
     |      LEXER_CHAR_SET
 ;

block
@init {
 enterBlock($start);
}
@after {
 exitBlock($start);
}
   : ^(BLOCK optionsSpec? ruleAction* ACTION? alternative+)
   ;

ruleref
@init {
 enterRuleref($start);
}
@after {
 exitRuleref($start);
}
   : ^(RULE_REF arg=ARG_ACTION? elementOptions?)
    {
    ruleRef($RULE_REF, (ActionAST)$ARG_ACTION);
    if ( $arg!=null ) actionInAlt((ActionAST)$arg);
     }
   ;

range
@init {
 enterRange($start);
}
@after {
 exitRange($start);
}
   : ^(RANGE STRING_LITERAL STRING_LITERAL)
   ;
```

```
terminal
@init {
 enterTerminal($start);
}
@after {
 exitTerminal($start);
}
  :  ^(STRING_LITERAL elementOptions)
         {stringRef((TerminalAST)$STRING_LITERAL);}
  | STRING_LITERAL    {stringRef((TerminalAST)$STRING_LITERAL);}
  | ^(TOKEN_REF elementOptions) {tokenRef((TerminalAST)$TOKEN_REF);}
  | TOKEN_REF        {tokenRef((TerminalAST)$TOKEN_REF);}
  ;

elementOptions
@init {
 enterElementOptions($start);
}
@after {
 exitElementOptions($start);
}
  : ^(ELEMENT_OPTIONS elementOption[(GrammarASTWithOptions)$start.getParent()]*)
  ;

elementOption[GrammarASTWithOptions t]
@init {
 enterElementOption($start);
}
@after {
 exitElementOption($start);
}
  : ID        {elementOption(t, $ID, null);}
  |  ^(ASSIGN id=ID v=ID)   {elementOption(t, $id, $v);}
  |  ^(ASSIGN ID v=STRING_LITERAL) {elementOption(t, $ID, $v);}
  |  ^(ASSIGN
 ID v=ACTION)   {elementOption(t, $ID, $v);}
  |  ^(ASSIGN ID v=INT)    {elementOption(t, $ID, $v);}
  ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.g
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*/

phpTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0",
 "double":"0.0",
 "boolean":"false",
 default:"null"
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@see <file.parserName>}.
*/
interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the `<lname>`
* labeled alternative in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
```

```
* Enter a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.listenerLabelRuleNames.(lname)>()\}.
<else>
* Exit a parse
 tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
* @param $context The parse tree.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void;};
separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>

use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
use Antlr\\Antlr4\\Runtime\\Tree\\ErrorNode;
use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;

/**
* This class provides an empty implementation of {@see <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseListener implements <file.grammarName>Listener
{
 <file.listenerNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function enter<lname; format="cap">(Context\\<lname; format="cap">Context
 $context): void {\}

/**
```

```
* {@inheritdoc\}
*
* The default implementation does nothing.
*/
public function exit<lname; format="cap">(Context\\<lname; format="cap">Context $context): void {\}};
separator="\n">

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function enterEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function exitEveryRule(ParserRuleContext $context): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitTerminal(TerminalNode $node): void {}

 /**
  * {@inheritdoc\}
  *
  * The default implementation does nothing.
  */
 public function visitErrorNode(ErrorNode $node): void {}
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>

<header>
use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;

/**
```

```
 * This interface defines a complete generic visitor for a parse tree produced by {@see <file.parserName>}.
*/
interface <file.grammarName>Visitor extends ParseTreeVisitor
{
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the `<lname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(lname)>()\}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<lname>()\}.
<endif>
*
* @param Context\\<lname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context);};
separator="\n\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage>;
<endif>
<header>
use Antlr\\Antlr4\\Runtime\\Tree\\AbstractParseTreeVisitor;

/**
* This class provides an
 empty implementation of {@see <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*/
class <file.grammarName>BaseVisitor extends AbstractParseTreeVisitor implements <file.grammarName>Visitor
{
 <file.visitorNames:{lname |
/**
* {@inheritdoc\}
*
* The default implementation returns the result of calling
* {@see self::visitChildren()\} on `context`.
*/
public function visit<lname; format="cap">(Context\\<lname; format="cap">Context $context)
{
  return $this->visitChildren($context);
```

```
\}}; separator="\n\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
\<?php

/*
* Generated from <grammarFileName> by ANTLR <ANTLRVersion>
*/

>>
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
namespace<if(file.genPackage)> <file.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use
 Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\ParserATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\FailedPredicateException;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\NoViableAltException;
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\Error\\Exceptions\\RecognitionException;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\TokenStream;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\Parser;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <parser.name> extends <superClass; null="Parser">
 {
  <if(parser.tokens)>
  public const <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=",
", wrap, anchor>;
  <endif>

  <if(parser.rules)>
  public const <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
  <endif>
```

```
/**
 * @var array\<string>
 */
public const RULE_NAMES = [
 <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
];

<vocabulary(parser.literalNames, parser.symbolicNames)>

<atn>
protected static $atn;
protected static $decisionToDFA;
protected static $sharedContextCache;
<if(namedActions.members)>

<namedActions.members>
<endif>


<parser:(ctor)()>

private static function initialize(): void
{
 if (self::$atn !== null) {
  return;
 }

 RuntimeMetaData::checkVersion('<file.ANTLRVersion>', RuntimeMetaData::VERSION);

 $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

 $decisionToDFA = [];
 for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
  $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
 }

 self::$atn = $atn;
 self::$decisionToDFA
= $decisionToDFA;
 self::$sharedContextCache = new PredictionContextCache();
}

public function getGrammarFileName(): string
{
 return "<parser.grammarFileName>";
}

public function getRuleNames(): array
```

```
 {
  return self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
     {
        static $vocabulary;

  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
     }
<if(funcs)>

  <funcs; separator="\n\n">
<endif>
<if(sempredFuncs)>

 public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
 {
  switch ($ruleIndex) {
  <parser.sempredFuncs.values:{f|
 case <f.ruleIndex>:
  return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">

   default:
    return
true;
   }
 }

  <sempredFuncs.values; separator="\n\n">
<endif>
}
}

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
 use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
 use Antlr\\Antlr4\\Runtime\\Token;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
```

```
 use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
 use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
 use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
 <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
 <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
 <namedActions.contexts>

 <funcs :{ func | <func.ruleCtx><if(func.altLabelCtxs)>

<func.altLabelCtxs:{l | <func.altLabelCtxs.(l)>}; separator="\n\n"><endif> }; separator="\n\n">
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
/**
* @var array\<string|null>
*/
private const LITERAL_NAMES = [
   <literalNames:{t | <t>}; null="null",
 separator=", ", wrap, anchor>
];

/**
* @var array\<string>
*/
private const SYMBOLIC_NAMES = [
   <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>

public function action(?RuleContext $localContext, int $ruleIndex, int $actionIndex): void
{
 switch ($ruleIndex) {
 <recog.actionFuncs.values:{f|
 case <f.ruleIndex>:
  $this->action<f.name; format="cap">($localContext, $actionIndex);
  break;}; separator="\n\n">
 }
}

<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>

public function sempred(?RuleContext $localContext, int $ruleIndex, int $predicateIndex): bool
```

```
{
 switch ($ruleIndex) {
 <recog.sempredFuncs.values:{f|
   case <f.ruleIndex>:
       return $this->sempred<f.name; format="cap">($localContext, $predicateIndex);}; separator="\n\n">
 }

 return true;
}
<sempredFuncs.values; separator="\n\n">
<endif>
>>

parser_ctor(p) ::= <<
public function __construct(TokenStream
 $input)
{
 parent::__construct($input);

 self::initialize();

 $this->interp = new ParserATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
}
>>

/**
* This generates a private method since the actionIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private function action<r.name; format="cap">(?<r.ctxType> $localContext, int $actionIndex): void
{
 switch ($actionIndex) {
 <actions:{index|
 case <index>:
 <actions.(index)>

 break;}; separator="\n\n">
 }
}
>>

/**
* This generates a private method since the predicateIndex is generated, making
* an overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private function sempred<r.name; format="cap">(?Context\\<r.ctxType> $localContext, int $predicateIndex): bool
```

```
{
 switch ($predicateIndex) {
 <actions:{index|
   case <index>:
      return <actions.(index)>;}; separator="\n\n">
 }

 return
 true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,exceptions,postamble)
::= <<
/**
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=",">): Context\\<currentRule.ctxType>
{
  $localContext = new Context\\<currentRule.ctxType>($this->ctx, $this->getState()<currentRule.args:{a | ,
$<a.name>}>);

  $this->enterRule($localContext, <currentRule.startState>, self::RULE_<currentRule.name>);
  <namedActions.init>
  <locals; separator="\n">

  try {
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  }<if(exceptions)><exceptions; separator="\n"><else> catch (RecognitionException $exception) {
     $localContext->exception = $exception;
     $this->errorHandler->reportError($this, $exception);
     $this->errorHandler->recover($this, $exception);
  }<endif> finally {

     <finallyAction>
     $this->exitRule();
  }

  return $localContext;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamb
le) ::= <<
/**
```

```
* @throws RecognitionException
*/
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><endif>public function <currentRule.name>(<args;
separator=", ">): Context\\<currentRule.ctxType>
{
 return $this->recursive<currentRule.name; format="cap">(0<currentRule.args:{a | , <a.name>}>);
}

/**
* @throws RecognitionException
*/
private function recursive<currentRule.name; format="cap">(int $precedence<args:{a | , <a>}>):
Context\\<currentRule.ctxType>
{
 $parentContext = $this->ctx;
 $parentState = $this->getState();
 $localContext = new Context\\<currentRule.ctxType>($this->ctx, $parentState<currentRule.args:{a | ,
<a.name>}>);
 $previousContext = $localContext;
 $startState = <currentRule.startState>;
 $this->enterRecursionRule($localContext, <currentRule.startState>,
 self::RULE_<currentRule.name>, $precedence);
 <namedActions.init>
 <locals; separator="\n">

 try {
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 } catch (RecognitionException $exception) {
  $localContext->exception = $exception;
  $this->errorHandler->reportError($this, $exception);
  $this->errorHandler->recover($this, $exception);
 } finally {
  <finallyAction>
  $this->unrollRecursionContexts($parentContext);
 }

 return $localContext;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>$localContext = new
Context\\<currentOuterMostAltCodeBlock.altLabel; format="cap">Context($localContext);<endif>
$this->enterOuterAlt($localContext, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>
```

```
CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice,
 preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

switch ($this->input->LA(1)) {
   <choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n\n">

default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<preamble; separator="\n">

if (<expr>) {
 <alts; separator="\n">
}
>>
```

```
LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

<preamble;
 separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

<preamble; separator="\n">
do {
 <alts; separator="\n">
 $this->setState(<choice.stateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);
 <iteration>
} while (<loopExpr>);
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
<if(choice.label)><labelref(choice.label)> = $this->input->LT(1);<endif>
<preamble; separator="\n">

switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
 <alts:{alt |
case <i>:
   <alt>
break;}; separator="\n\n">
}
>>

OptionalBlock(choice,
 alts, error) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);
```

```
switch ($this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx)) {
<alts:{alt |
  case <i><if(!choice.ast.greedy)>+1<endif>:
    <alt>
 break;}; separator="\n\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
$this->setState(<choice.stateNumber>);
$this->errorHandler->sync($this);

$alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);

while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER) {
 if ($alt === 1<if(!choice.ast.greedy)>+1<endif>) {
  <iteration>
  <alts> <! should only be one !>
 }

 $this->setState(<choice.loopBackStateNumber>);
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
$this->setState(<choice.blockStartStateNumber>); <! alt block decision !>
$this->errorHandler->sync($this);

$alt
 = 1<if(!choice.ast.greedy)>+1<endif>;

do {
 switch ($alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n\n">
 default:
  <error>
 }

 $this->setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 $this->errorHandler->sync($this);

 $alt = $this->getInterpreter()->adaptivePredict($this->input, <choice.decision>, $this->ctx);
```

```
} while ($alt !== <choice.exitAlt> && $alt !== ATN::INVALID_ALT_NUMBER);
>>

Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException($this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) === 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName,
 bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & <bits.calculated>) !== 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>($<shiftAmount> - <offset>)<else>$<shiftAmount><endif>
%>
offsetShiftConst(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(self::<shiftAmount> - <offset>)<else>self::<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | $<s.varName> === self::<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case self::<t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
$this->setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> = }><endif>$this-><if(r.ast.options.p)>recursive<r.name;
format="cap"><else><r.name><endif>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif>
<argExprsChunks>);
>>
```

```
MatchToken(m) ::= <<
$this->setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l
 | <labelref(l)> = }><endif>$this->match(self::<m.name>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
$this->setState(<m.stateNumber>);

<if(m.labels)><m.labels:{l | <labelref(l)> = }>$this->input->LT(1);<endif>
<capture>

if (<if(invert)>$<m.varName> \<= 0 || <else>!<endif>(<expr>)) {
    <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>$this->errorHandler->recoverInline($this);
} else {
 if ($this->input->LA(1) === Token::EOF) {
    $this->matchedEOF = true;
  }

 $this->errorHandler->reportMatch($this);
 $this->consume();
}
>>

Wildcard(w) ::= <<
$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>$this->matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
$this->setState(<p.stateNumber>);

if
 (!(<chunks>)) {
  throw new FailedPredicateException($this, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>);
}
```

```
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "$this->skip();"
LexerMoreCommand()  ::= "$this->more();"
LexerPopModeCommand() ::= "$this->popMode();"

LexerTypeCommand(arg, grammar)      ::= "$this->type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "$this->channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "$this->mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "$this->pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "$localContext-><a.name>"
LocalRef(a) ::= "$localContext-><a.name>"
RetValueRef(a) ::= "$localContext-><a.name>"
QRetValueRef(a) ::= "<ctx(a)>-><a.dict>-><a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>-><t.name>"
LabelRef(t)
 ::= "<ctx(t)>-><t.name>"
ListLabelRef(t) ::= "<ctx(t)>-><ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>-><s.name> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getText() : null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>-><t.label> !== null ? <ctx(t)>-><t.label>->getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>-><t.label> !== null ? (int) <ctx(t)>-><t.label>->getText()
 : 0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->start) : null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>-><r.label> !== null ? (<ctx(r)>-><r.label>->stop) : null)"
RulePropertyRef_text(r)  ::= "(<ctx(r)>-><r.label> !== null ? $this->input->getTextByTokens(<ctx(r)>-><r.label>-
>start, <ctx(r)>-><r.label>->stop) : null)"
```

```
RulePropertyRef_ctx(r)  ::= "<ctx(r)>-><r.label>"
RulePropertyRef_parser(r):= "\$this"

ThisRulePropertyRef_start(r) ::= "$localContext->start"
ThisRulePropertyRef_stop(r)  ::= "$localContext->stop"
ThisRulePropertyRef_text(r)  ::= "$this->input->getTextByTokens($localContext->start, $this->input->LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "$localContext"
ThisRulePropertyRef_parser(r):= "$this"

NonLocalAttrRef(s)        ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "\$this->getInvokingContext(<s.ruleIndex>)-><s.name> = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>-><a.listName>[]
 = <labelref(a.label)>;"

TokenDecl(t) ::= "<TokenLabelType()> $<t.name>"
TokenTypeDecl(t) ::= ""
TokenListDecl(t) ::= "array $<t.name> = []"
RuleContextDecl(r) ::= "<r.ctxName> $<r.name>"
RuleContextListDecl(rdecl) ::= "array $<rdecl.name> = []"
AttributeDecl(d) ::= "<d.type> $<d.name><if(d.initValue)> = <d.initValue><endif>"

PropertiesDecl(struct) ::= <<
<if(struct.tokenListDecls)>
 <struct.tokenListDecls : {d | /**
* @var array\<Token>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.tokenDecls)>
<if(struct.tokenListDecls)>

<endif>
 <struct.tokenDecls : {d | /**
* @var <TokenLabelType()>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextDecls)>
<if(struct.tokenListDecls || struct.tokenDecls)>

<endif>
 <struct.ruleContextDecls : {d | /**
* @var <d.ctxName>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.ruleContextListDecls)>
```

```
<if(struct.tokenListDecls || struct.tokenDecls
 || struct.ruleContextDecls)>

<endif>
 <struct.ruleContextListDecls : {d | /**
* @var array\<<d.ctxName>\>|null $<d.name>
*/
public $<d.name>;}; separator="\n\n">
<endif>
<if(struct.attributeDecls)>
<if(struct.tokenListDecls || struct.tokenDecls || struct.ruleContextDecls || struct.ruleContextListDecls)>

<endif>
 <struct.attributeDecls : {d | /**
* @var <d.type><if(!d.initValue)>|null<endif> $<d.name>
*/
public $<d.name><if(d.initValue)> = <d.initValue><endif>;}; separator="\n\n">
<endif>

>>

ContextTokenGetterDecl(t) ::= <<
public function <t.name>(): ?TerminalNode
{
  return $this->getToken(<parser.name>::<t.name>, 0);
}
>>

ContextTokenListGetterDecl(t)  ::= <<
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
/**
* @return array\<TerminalNode>|TerminalNode|null
*/
public function <t.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTokens(<parser.name>::<t.name>);
 }

  return $this->getToken(<parser.name>::<t.name>, $index);
}
>>

ContextRuleGetterDecl(r)
      ::= <<
public function <r.name>(): ?<r.ctxName>
```

```
{
 return $this->getTypedRuleContext(<r.ctxName>::class, 0);
}
>>

ContextRuleListGetterDecl(r)   ::= <<
>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
/**
* @return array\<<r.ctxName>\>|<r.ctxName>|null
*/
public function <r.name>(?int $index = null)
{
 if ($index === null) {
  return $this->getTypedRuleContexts(<r.ctxName>::class);
 }

   return $this->getTypedRuleContext(<r.ctxName>::class, $index);
}
>>

LexerRuleContext() ::= "RuleContext"

/**
* The rule context name is the rule followed by a suffix; e.g., r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "$<d.varName> = \$this->input->LT(1);"
CaptureNextTokenType(d) ::= "$<d.varName> = $this->input->LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif>
{
<PropertiesDecl(struct)>
 public function __construct(?ParserRuleContext $parent, ?int $invokingState = null<ctorAttrs:{a | , ?<a> = null}>)
 {
  parent::__construct($parent, $invokingState);
<if(struct.ctorAttrs)>
```

```
  <struct.ctorAttrs:{a | $this-><a.name> = $<a.name> ?? $this-><a.name>;}; separator="\n">
<endif>
 }

 public function getRuleIndex(): int
 {
     return <parser.name>::RULE_<struct.derivedFromName>;
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public function copyFrom(ParserRuleContext $context): void
 {
  parent::copyFrom($context);

  <struct.attrs:{a | $this-><a.name> = $context-><a.name>;}; separator="\n">
 }
<endif>
<if(dispatchMethods)>

 <dispatchMethods;
 separator="\n\n">
<endif>
<if(extensionMembers)>

 <extensionMembers; separator="\n\n">
<endif>
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context
{
<PropertiesDecl(struct)>
 public function __construct(<struct.parentRule; format="cap">Context $context)
 {
     parent::__construct($context);

     $this->copyFrom($context);
   }
<if(getters)>

   <getters:{g | <g>}; separator="\n\n">
<endif>
<if(dispatchMethods)>
```

```
 <dispatchMethods; separator="\n\n">
<endif>
}
>>

ListenerDispatchMethod(method) ::= <<
public function <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener $listener): void
{
 if ($listener instanceof <parser.grammarName>Listener) {
    $listener-><if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">($this);
  }
}
>>

VisitorDispatchMethod(method) ::= <<
public function accept(ParseTreeVisitor $visitor): mixed
{
 if ($visitor instanceof
 <parser.grammarName>Visitor) {
    return $visitor->visit<struct.derivedFromName; format="cap">($this);
  }

 return $visitor->visitChildren($this);
}
>>

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>$localContext-><endif><x.name>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "$localContext"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "\$this->precpred(\$this->ctx, <opPrec>)"

recRuleSetReturnAction(src,name)   ::= "\$<name> = \$<src>-><name>;"

recRuleSetStopToken()                 ::= "$this->ctx->stop = $this->input->LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
$localContext = new Context\\<ctxName>Context($parentContext, $parentState);
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
```

```
<endif>

$this->pushNewRecursionContext($localContext,
 $startState, self::RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
$localContext = new Context\\<currentAltLabel; format="cap">Context(new Context\\<ruleName;
format="cap">Context($parentContext, $parentState));
<if(label)>
<if(isListLabel)>
$localContext-><label>[] = $previousContext;
<else>
$localContext-><label> = $previousContext;
<endif>
<endif>

$this->pushNewRecursionContext($localContext, $startState, self::RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
$localContext = new Context\\<ctxName>Context($localContext);
$this->ctx = $localContext;
$previousContext = $localContext;
>>

recRuleSetPrevCtx() ::= <<
if ($this->getParseListeners() !== null) {
   $this->triggerExitRuleEvent();
}

$previousContext = $localContext;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass)
 ::= <<
namespace<if(lexerFile.genPackage)> <lexerFile.genPackage><endif> {
<if(namedActions.header)><namedActions.header><endif>
 use Antlr\\Antlr4\\Runtime\\Atn\\ATNDeserializer;
 use Antlr\\Antlr4\\Runtime\\Atn\\LexerATNSimulator;
 use Antlr\\Antlr4\\Runtime\\Lexer;
 use Antlr\\Antlr4\\Runtime\\CharStream;
```

```
 use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
 use Antlr\\Antlr4\\Runtime\\RuleContext;
 use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
 use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
 use Antlr\\Antlr4\\Runtime\\Vocabulary;
 use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
 use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

 final class <lexer.name> extends <superClass; null="Lexer">
 {
  <if(lexer.tokens)>
  public const <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
  <endif>

  <if(lexer.escapedChannels)>
  public const <lexer.escapedChannels:{c | <c> = <lexer.escapedChannels.(c)>};
 separator=", ", wrap, anchor>;
  <endif>

  <if(rest(lexer.escapedModeNames))>
  public const <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
  <endif>

  /**
   * @var array\<string>
   */
  public const CHANNEL_NAMES = [
   'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channelNames)>, <lexer.channelNames:{c| '<c>'};
separator=", ", wrap, anchor><endif>
  ];

  /**
   * @var array\<string>
   */
  public const MODE_NAMES = [
   <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
  ];

  /**
   * @var array\<string>
   */
  public const RULE_NAMES = [
   <lexer.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
  ];

  <vocabulary(lexer.literalNames, lexer.symbolicNames)>
```

```
 <atn>
 protected static $atn;
 protected static $decisionToDFA;
 protected static $sharedContextCache;
<if(namedActions.members)>

 <namedActions.members>
<endif>

 public function __construct(CharStream $input)
 {
  parent::__construct($input);

  self::initialize();

  $this->interp
 = new LexerATNSimulator($this, self::$atn, self::$decisionToDFA, self::$sharedContextCache);
 }

 private static function initialize(): void
 {
  if (self::$atn !== null) {
   return;
  }

  RuntimeMetaData::checkVersion('<lexerFile.ANTLRVersion>', RuntimeMetaData::VERSION);

  $atn = (new ATNDeserializer())->deserialize(self::SERIALIZED_ATN);

  $decisionToDFA = [];
  for ($i = 0, $count = $atn->getNumberOfDecisions(); $i \< $count; $i++) {
   $decisionToDFA[] = new DFA($atn->getDecisionState($i), $i);
  }

  self::$atn = $atn;
  self::$decisionToDFA = $decisionToDFA;
  self::$sharedContextCache = new PredictionContextCache();
 }

 public static function vocabulary(): Vocabulary
 {
  static $vocabulary;

  return $vocabulary = $vocabulary ?? new VocabularyImpl(self::LITERAL_NAMES, self::SYMBOLIC_NAMES);
 }

 public function getGrammarFileName(): string
 {
```

```
  return '<lexer.grammarFileName>';
 }

 public function getRuleNames(): array
 {
  return
self::RULE_NAMES;
 }

 public function getSerializedATN(): array
 {
  return self::SERIALIZED_ATN;
 }

 /**
  * @return array\<string>
  */
 public function getChannelNames(): array
 {
  return self::CHANNEL_NAMES;
 }

 /**
  * @return array\<string>
  */
 public function getModeNames(): array
 {
  return self::MODE_NAMES;
 }

 public function getATN(): ATN
 {
  return self::$atn;
 }

 public function getVocabulary(): Vocabulary
 {
  return self::vocabulary();
 }
 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
}
}
>>

SerializedATN(model) ::= <<
private const SERIALIZED_ATN =
 [<model.serialized: {s | <s>}; separator=", ", wrap={<\n>    }>];
>>
```

```
/**
* Using a type to init value map, try to init a type; if not in table
* must be an object, default value is `null`.
*/
initValue(typeName) ::= <<
<phpTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".php"
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg
No license file was found, but licenses were detected in source scan.

```
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

tree grammar ATNBuilder;
options {
```

```
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
// filter       = true;
}

// Include the copyright in this source and also the generated source
@header {
/*
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 modification, are permitted provided that the following conditions
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THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
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*/
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import org.antlr.v4.automata.ATNFactory;
}

@members {
  ATNFactory factory;
  public ATNBuilder(TreeNodeStream input, ATNFactory factory) {
   this(input);
   this.factory = factory;
  }
}
```

```
dummy : block[null] ; // avoid error about no start rule

ruleBlock[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {
  List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();
  int alt = 1;
  factory.setCurrentOuterAlt(alt);
}
  : ^(BLOCK
        (^(OPTIONS .*))?
        (   a=alternative
           {alts.add($a.p); factory.setCurrentOuterAlt(++alt);}
        )+
     )
    {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

block[GrammarAST ebnfRoot] returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> alts = new ArrayList<ATNFactory.Handle>();}
  : ^(BLOCK (^(OPTIONS .*))? (a=alternative {alts.add($a.p);})+)
   {$p = factory.block((BlockAST)$BLOCK, ebnfRoot, alts);}
  ;

alternative returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> els = new ArrayList<ATNFactory.Handle>();}
  : ^(LEXER_ALT_ACTION a=alternative lexerCommands)
     {$p = factory.lexerAltCommands($a.p,$lexerCommands.p);}
  | ^(ALT elementOptions? EPSILON)       {$p = factory.epsilon($EPSILON);}
  |   ^(ALT elementOptions? (e=element {els.add($e.p);})+) {$p = factory.alt(els);}
  ;

lexerCommands returns [ATNFactory.Handle p]
@init {List<ATNFactory.Handle> cmds = new ArrayList<ATNFactory.Handle>();}
  :   (c=lexerCommand {if ($c.cmd != null) cmds.add($c.cmd);})+
     {
     $p = factory.alt(cmds);
     }
  ;

lexerCommand returns
 [ATNFactory.Handle cmd]
 : ^(LEXER_ACTION_CALL ID lexerCommandExpr)
     {$cmd = factory.lexerCallCommand($ID, $lexerCommandExpr.start);}
 | ID
     {$cmd = factory.lexerCommand($ID);}
 ;

lexerCommandExpr
```

```
 : ID
 | INT
 ;

element returns [ATNFactory.Handle p]
 : labeledElement    {$p = $labeledElement.p;}
 | atom      {$p = $atom.p;}
 | subrule      {$p = $subrule.p;}
 |   ACTION      {$p = factory.action((ActionAST)$ACTION);}
 |   SEMPRED      {$p = factory.sempred((PredAST)$SEMPRED);}
 |   ^(ACTION .)     {$p = factory.action((ActionAST)$ACTION);}
 |   ^(SEMPRED .)    {$p = factory.sempred((PredAST)$SEMPRED);}
  | ^(NOT b=blockSet[true])  {$p = $b.p;}
  | LEXER_CHAR_SET    {$p = factory.charSetLiteral($start);}
 ;

astOperand returns [ATNFactory.Handle p]
 : atom      {$p = $atom.p;}
 | ^(NOT blockSet[true])  {$p = $blockSet.p;}
 ;

labeledElement returns [ATNFactory.Handle p]
 : ^(ASSIGN ID element)     {$p = factory.label($element.p);}
 | ^(PLUS_ASSIGN ID element)
  {$p = factory.listLabel($element.p);}
 ;

subrule returns [ATNFactory.Handle p]
 : ^(OPTIONAL block[$start])   {$p = $block.p;}
 | ^(CLOSURE block[$start])   {$p = $block.p;}
 | ^(POSITIVE_CLOSURE block[$start]) {$p = $block.p;}
 |  block[null]       {$p = $block.p;}
   ;

blockSet[boolean invert] returns [ATNFactory.Handle p]
@init {List<GrammarAST> alts = new ArrayList<GrammarAST>();}
 : ^(SET (setElement {alts.add($setElement.start);})+) {$p = factory.set($start, alts, $invert);}
 ;

/** Don't combine with atom otherwise it will build spurious ATN nodes */
setElement
 : ^(STRING_LITERAL .)
 | ^(TOKEN_REF .)
 | STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   |   LEXER_CHAR_SET
 ;
```

```
atom returns [ATNFactory.Handle p]
 : range     {$p = $range.p;}
 | ^(DOT ID terminal)  {$p = $terminal.p;}
 | ^(DOT ID ruleref)  {$p = $ruleref.p;}
   | ^(WILDCARD .)   {$p = factory.wildcard($start);}
   | WILDCARD    {$p = factory.wildcard($start);}
   | blockSet[false]   {$p
 = $blockSet.p;}
   |   terminal    {$p = $terminal.p;}
   |   ruleref     {$p = $ruleref.p;}
   ;

ruleref returns [ATNFactory.Handle p]
   : ^(RULE_REF ARG_ACTION? ^(ELEMENT_OPTIONS .*))  {$p = factory.ruleRef($RULE_REF);}
   | ^(RULE_REF ARG_ACTION?)        {$p = factory.ruleRef($RULE_REF);}
   | RULE_REF          {$p = factory.ruleRef($RULE_REF);}
   ;

range returns [ATNFactory.Handle p]
   : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL) {$p = factory.range($a,$b);}
   ;

terminal returns [ATNFactory.Handle p]
   :  ^(STRING_LITERAL .)   {$p = factory.stringLiteral((TerminalAST)$start);}
   | STRING_LITERAL    {$p = factory.stringLiteral((TerminalAST)$start);}
   | ^(TOKEN_REF ARG_ACTION .) {$p = factory.tokenRef((TerminalAST)$start);}
   | ^(TOKEN_REF .)    {$p = factory.tokenRef((TerminalAST)$start);}
   | TOKEN_REF     {$p = factory.tokenRef((TerminalAST)$start);}
   ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
 : ID
 | ^(ASSIGN ID
 ID)
 | ^(ASSIGN ID STRING_LITERAL)
 | ^(ASSIGN ID ACTION)
 | ^(ASSIGN ID INT)
 ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g
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-->

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* /antlr4-4-13-0-sources-1-jar/META-INF/maven/org.antlr/antlr4/pom.xml
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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```
pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other
 than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
 from typing import TextIO
else:
 from typing.io import TextIO

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
   pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  pass
```

```
}; separator="\n">

del <file.parserName>
>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
if "." in __name__:
  from .<file.parserName> import <file.parserName>
else:
  from <file.parserName> import <file.parserName>
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

  <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx:<file.parserName>.<lname; format="cap">Context):
  return self.visitChildren(ctx)

}; separator="\n">

del <file.parserName>
>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR
 <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
```

```
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

  grammarFileName = "<parser.grammarFileName>"

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

  sharedContextCache = PredictionContextCache()

  literalNames = [ <parser.literalNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  symbolicNames = [ <parser.symbolicNames:{t | <t>}; null="\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <if(parser.rules)>
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
  <endif>

  ruleNames =
 [ <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f |
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
```

```
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx:RuleContext, ruleIndex:int, actionIndex:int):
    if self._actions is None:
        actions = dict()
<recog.actionFuncs.values:{f|
        actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
        self._actions = actions
    action = self._actions.get(ruleIndex, None)
    if action is not None:
        action(localctx, actionIndex)
    else:
        raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):
    if self._predicates is None:
        preds = dict()
<recog.sempredFuncs.values:{f|
        preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
        self._predicates = preds
    pred = self._predicates.get(ruleIndex, None)
    if pred is not None:
        return pred(localctx, predIndex)
    else:
        raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self,
 input:TokenStream, output:TextIO = sys.stdout):
    super().__init__(input, output)
    self.checkVersion("<file.ANTLRVersion>")
    self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
    self._predicates = None
```

```
>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx:<r.ctxType> , actionIndex:int):
<actions:{index|
<if(first(actions))>
  if actionIndex == <index>:
     <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
     <actions.(index)>
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx:<r.ctxType>, predIndex:int):
  <actions:{index|
<if(first(actions))>
   if predIndex == <index>:
     return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
     return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName><if(a.type)>:<a.type><endif>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | ,
<a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
```

```
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self,
 re)
     self._errHandler.recover(self, re)
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self, _p:int=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a | , <a.escapedName>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re

  self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  finally:
     <finallyAction>
     self.unrollRecursionContexts(_parentctx)
```

```
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
    <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">
```

```
<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>

>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt
 block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i>:
  <alt>
  pass
}; separator="\nel">

>>
```

```
OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
_alt
 = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s)
 ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"
```

```
TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t
 | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>
```

```
MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
    self._errHandler.reportMatch(self)
  self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
except <catchArg>:
  <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
```

```
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg,
 grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None
 else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is None else
self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)
 ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
```

```
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl) ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>

ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self,
 i:int=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i:int=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
  else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"
```

```
/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)
  ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
  __slots__ = 'parser'

  def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.escapedName><if(a.type)>:<a.type><endif>=None}>):
      super().__init__(parent, invokingState)
      self.parser = parser
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
   def copyFrom(self, ctx:ParserRuleContext):
      super().copyFrom(ctx)
      <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx:ParserRuleContext): # actually a <parser.name>.<currentRule.name;
format="cap">Context
      super().__init__(parser)
```

```
    <attrs:{a | <a>}; separator="\n">
    self.copyFrom(ctx)

  <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener:ParseTreeListener):
  if hasattr( listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">" ):
    listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
 format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor:ParseTreeVisitor):
  if hasattr( visitor, "visit<struct.derivedFromName; format="cap">" ):
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
    return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx =
 <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
```

```
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName,
 lexerFile.ANTLRVersion)>
from antlr4 import *
from io import StringIO
import sys
if sys.version_info[1] > 5:
  from typing import TextIO
else:
  from typing.io import TextIO

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
```

```
if "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>
<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
  <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">

<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

   channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ "\<INVALID>",
        <lexer.literalNames:{t | <t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ "\<INVALID>",
        <lexer.symbolicNames:{t | <t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = "<lexer.grammarFileName>"

  def __init__(self, input=None, output:TextIO = sys.stdout):
     super().__init__(input, output)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None
```

```
  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model)
 ::= <<
def serializedATN():
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".py"
```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
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*/

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*/

/** Find left-recursive rules */
tree grammar LeftRecursiveRuleWalker;

```
options {
 tokenVocab=ANTLRParser;
   ASTLabelType=GrammarAST;
}

@header {
package org.antlr.v4.parse;

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public
 int numAlts;  // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
 currentOuterAltNumber = 1;
}
 : ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
   ruleModifier?
//   (ARG_ACTION)? shouldn't allow args, right?
   (^(RETURNS a=ARG_ACTION {setReturnValues($a);}))?
//       ( ^(THROWS .+) )? don't allow
      ( ^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
      ( ^(OPTIONS .*)
     |  ^(AT ID ACTION) // TODO: copy
     )*
   ruleBlock {$isLeftRec = $ruleBlock.isLeftRec;}
   exceptionGroup
  )
```

```
;

exceptionGroup
  : exceptionHandler* finallyClause?
   ;

exceptionHandler
 : ^(CATCH ARG_ACTION ACTION)
 ;

finallyClause
 : ^(FINALLY ACTION)
 ;

ruleModifier
  : PUBLIC
  | PRIVATE
  | PROTECTED
  ;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
 : ^( BLOCK
  (
   o=outerAlternative
   {if ($o.isLeftRec) $isLeftRec = true;}
   {currentOuterAltNumber++;}
  )+
 )
 ;

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
  :   (binary)=>          binary
                    {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |   (prefix)=>          prefix
                    {prefixAlt((AltAST)$start, currentOuterAltNumber);}
  |   (suffix)=>          suffix
                    {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
  |   nonLeftRecur        {otherAlt((AltAST)$start,  currentOuterAltNumber);}
  ;

binary
 : ^(
 ALT elementOptions? recurse element* recurse epsilonElement* )
      {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;
```

```
prefix
 : ^( ALT elementOptions?
   element+
   recurse epsilonElement*
   )
       {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
 ;

suffix
   :   ^( ALT elementOptions? recurse element+ )
       {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
   ;

nonLeftRecur
   :   ^(ALT elementOptions? element+)
   ;

recurse
 : ^(ASSIGN ID recurseNoLabel)
 | ^(PLUS_ASSIGN ID recurseNoLabel)
 | recurseNoLabel
 ;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
 : ^(ASSIGN ID s=token {$t = $s.t;})
 | ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
 | b=STRING_LITERAL         {$t = $b;}
   | ^(b=STRING_LITERAL elementOptions)  {$t = $b;}
   | ^(c=TOKEN_REF elementOptions)   {$t = $c;}
 | c=TOKEN_REF              {$t = $c;}
 ;

elementOptions
   : ^(ELEMENT_OPTIONS elementOption*)

  ;

elementOption
   : ID
   |   ^(ASSIGN ID ID)
   |   ^(ASSIGN ID STRING_LITERAL)
   |   ^(ASSIGN ID ACTION)
   |   ^(ASSIGN ID INT)
   ;

element
```

```
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
   | ^(SET setElement+)
   |   RULE_REF
 | ebnf
 | epsilonElement
 ;

epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)
 ;

setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
 | STRING_LITERAL
 | TOKEN_REF
 ;

ebnf:   block
   |   ^( OPTIONAL block )
   |   ^( CLOSURE block )
   |   ^( POSITIVE_CLOSURE block )
   ;

block
   : ^(BLOCK ACTION? alternative+)
   ;

alternative
 : ^(ALT elementOptions? element+)
   ;

atom
 : ^(RULE_REF ARG_ACTION? elementOptions?)
   |  ^(STRING_LITERAL elementOptions)
 | STRING_LITERAL
   | ^(TOKEN_REF elementOptions)
 | TOKEN_REF
   | ^(WILDCARD elementOptions)
 | WILDCARD
```

| ^(DOT ID element)
;

Found in path(s):
*
/antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
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*/

javaTypeInitMap ::= [
 "int":"0",
 "long":"0",
 "float":"0.0f",
 "double":"0.0",
 "boolean":"false",
 "byte":"0",
 "short":"0",
 "char":"0",

```
 default:"null" // anything other than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.atn.*;
import org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.misc.*;
import org.antlr.v4.runtime.tree.*;
import java.util.List;
import java.util.Iterator;
import java.util.ArrayList;

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeListener;

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
```

```
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
*/
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
* of the available methods.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseListener implements <file.grammarName>Listener {
 <file.listenerNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
@Override public void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { \}};
separator="\n">

 /**
  * {@inheritDoc\}
```

```
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void enterEveryRule(ParserRuleContext ctx) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void exitEveryRule(ParserRuleContext ctx) { }
/**
 *
{@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitTerminal(TerminalNode node) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
@Override public void visitErrorNode(ErrorNode node) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.ParseTreeVisitor;

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
public interface <file.grammarName>Visitor\<T> extends ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
```

```
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
* @param ctx the parse tree
* @return the visitor result
*/
T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
package <file.genPackage>;
<endif>
<header>
import org.antlr.v4.runtime.tree.AbstractParseTreeVisitor;

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
@SuppressWarnings("CheckReturnValue")
public class <file.grammarName>BaseVisitor\<T> extends AbstractParseTreeVisitor\<T> implements
<file.grammarName>Visitor\<T>
 {
 <file.visitorNames:{lname |
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
@Override public T visit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx) { return
visitChildren(ctx); \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>
```

```
Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
public class <parser.name> extends <superClass; null="Parser"> {
 static { RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(parser.tokens)>
 public
 static final int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
 public static final int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 private static String[] makeRuleNames() {
  return new String[] {
   <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 @Override
 public String getGrammarFileName() { return "<parser.grammarFileName>"; }

 @Override
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public ATN getATN() { return _ATN; }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
   <parser.sempredFuncs.values:{f|
case
```

```
 <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
 return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static String[] makeLiteralNames() {
 return new String[] {
  <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _LITERAL_NAMES = makeLiteralNames();
private static String[] makeSymbolicNames() {
 return new String[] {
  <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
 };
}
private static final String[] _SYMBOLIC_NAMES = makeSymbolicNames();
public static final Vocabulary VOCABULARY = new VocabularyImpl(_LITERAL_NAMES,
_SYMBOLIC_NAMES);

/**
* @deprecated Use {@link #VOCABULARY} instead.
*/
@Deprecated
public static final String[] tokenNames;
static {
 tokenNames = new String[_SYMBOLIC_NAMES.length];
 for (int i = 0; i \< tokenNames.length; i++) {
  tokenNames[i]
 = VOCABULARY.getLiteralName(i);
  if (tokenNames[i] == null) {
   tokenNames[i] = VOCABULARY.getSymbolicName(i);
  }

  if (tokenNames[i] == null) {
   tokenNames[i] = "\<INVALID>";
  }
 }
}
```

```
@Override
@Deprecated
public String[] getTokenNames() {
 return tokenNames;
}

@Override

public Vocabulary getVocabulary() {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
@Override
public void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 <f.name>_action((<f.ctxType>)_localctx, actionIndex);
 break;}; separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
@Override
public boolean sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
 }
 return
 true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
public <p.name>(TokenStream input) {
 super(input);
 _interp = new ParserATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
}
>>
```

```
/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
 break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private boolean <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>:
 return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
 ::= <<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=","">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | ,
<a.escapedName>}>);
 enterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
```

```
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  _errHandler.reportError(this, re);
  _errHandler.recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  exitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble)
 ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public final <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) throws RecognitionException {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
}

private <currentRule.ctxType> <currentRule.escapedName>(int _p<args:{a | , <a>}>) throws RecognitionException
{
 ParserRuleContext _parentctx = _ctx;
 int _parentState = getState();
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 enterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int
 _alt;
<endif>
  <code>
```

```
 <postamble; separator="\n">
 <namedActions.after>
 }
 catch (RecognitionException re) {
 _localctx.exception = re;
 _errHandler.reportError(this, re);
 _errHandler.recover(this, re);
 }
 finally {
 <finallyAction>
 unrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new <currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(_localctx);<endif>
enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble;
 separator="\n">
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
```

```
_errHandler.sync(this);
switch (_input.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration)
 ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
```

```
setState(<choice.stateNumber>);
_errHandler.sync(this);
<if(choice.label)><labelref(choice.label)> = _input.LT(1);<endif>
<preamble; separator="\n">
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
switch ( getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>);
_errHandler.sync(this);
_alt
 = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>);
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
_errHandler.sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
```

```
 break;}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 _errHandler.sync(this);
 _alt = getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx);
} while ( _alt!=<choice.exitAlt> && _alt!=org.antlr.v4.runtime.atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s)
 ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>

isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.name>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <t.name>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks)
```

```
 ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<m.escapedName>);
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = (Token)}><endif>_errHandler.recoverInline(this);
}
else {
 if ( _input.LA(1)==Token.EOF ) matchedEOF = true;
 _errHandler.reportMatch(this);
 consume();
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>);
<if(w.labels)><w.labels:{l | <labelref(l)> =
 }><endif>matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>);
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>
```

```
ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip();"
LexerMoreCommand()  ::= "more();"
LexerPopModeCommand() ::= "popMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>;"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a)
 ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getText():null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getType():0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getLine():0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getCharPositionInLine():0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getChannel():0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label>!=null?<ctx(t)>.<t.label>.getTokenIndex():0)"
TokenPropertyRef_int(t)
 ::= "(<ctx(t)>.<t.label>!=null?Integer.valueOf(<ctx(t)>.<t.label>.getText()):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.start):null)"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?_input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"
```

```
ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "_input.getText(_localctx.start, _input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>
 = <rhsChunks>;"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <t.escapedName>"
TokenTypeDecl(t) ::= "int <t.escapedName>;"
TokenListDecl(t) ::= "List\<Token> <t.escapedName> = new ArrayList\<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "List\<<rdecl.ctxName>> <rdecl.escapedName> = new
ArrayList\<<rdecl.ctxName>>()"

ContextTokenGetterDecl(t)      ::=
   "public TerminalNode <t.name>() { return getToken(<parser.name>.<t.name>, 0); }"
ContextTokenListGetterDecl(t)  ::=
   "public List\<TerminalNode> <t.name>() { return getTokens(<parser.name>.<t.name>); }"
ContextTokenListIndexedGetterDecl(t)  ::= <<
public TerminalNode <t.name>(int i) {
 return getToken(<parser.name>.<t.name>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
public <r.ctxName> <r.escapedName>() {
 return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
public
 List\<<r.ctxName>\> <r.escapedName>() {
 return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
public <r.ctxName> <r.escapedName>(int i) {
 return getRuleContext(<r.ctxName>.class,i);
}
>>
```

```
LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = _input.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = _input.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures)
 ::= <<
@SuppressWarnings("CheckReturnValue")
public static class <struct.escapedName> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=",
 "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) { super(parent,
invokingState); }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>) {
  super(parent, invokingState);
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 @Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public void copyFrom(<struct.escapedName> ctx) {
  super.copyFrom(ctx);
  <struct.attrs:{a | this.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
@SuppressWarnings("CheckReturnValue")
public static class
 <struct.escapedName> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
```

```
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
@Override
public void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if ( listener instanceof <parser.grammarName>Listener )
((<parser.grammarName>Listener)listener).<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
@Override
public \<T> T accept(ParseTreeVisitor\<? extends T> visitor) {
 if ( visitor instanceof <parser.grammarName>Visitor ) return ((<parser.grammarName>Visitor\<? extends
T>)visitor).visit<struct.derivedFromName; format="cap">(this);
 else return visitor.visitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)>
 = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>((<x.ctx.name>)_localctx).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "((<actionChunk.ctx.name>)_localctx)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()                 ::= "_ctx.stop = _input.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
```

```
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new
 <ruleName; format="cap">Context(_parentctx, _parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = new <ctxName>Context(_localctx);
_ctx = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( _parseListeners!=null ) triggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
package <lexerFile.genPackage>;
<endif>
<namedActions.header>
import org.antlr.v4.runtime.Lexer;
import org.antlr.v4.runtime.CharStream;
import org.antlr.v4.runtime.Token;
import org.antlr.v4.runtime.TokenStream;
import org.antlr.v4.runtime.*;
import org.antlr.v4.runtime.atn.*;
import
 org.antlr.v4.runtime.dfa.DFA;
import org.antlr.v4.runtime.misc.*;

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast", "CheckReturnValue"})
```

```
public class <lexer.name> extends <superClass; null="Lexer"> {
 static { RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION); }

 protected static final DFA[] _decisionToDFA;
 protected static final PredictionContextCache _sharedContextCache =
  new PredictionContextCache();
 <if(lexer.tokens)>
 public static final int
  <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public static final int
  <lexer.escapedChannels:{c | <c>=<lexer.escapedChannels.(c)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(rest(lexer.escapedModeNames))>
 public static final int
  <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
 <endif>
 public static String[]
 channelNames = {
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
 };

 public static String[] modeNames = {
  <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
 };

 private static String[] makeRuleNames() {
  return new String[] {
   <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
  };
 }
 public static final String[] ruleNames = makeRuleNames();

 <vocabulary(lexer.literalNames, lexer.symbolicNames)>

 <namedActions.members>

 public <lexer.name>(CharStream input) {
  super(input);
  _interp = new LexerATNSimulator(this,_ATN,_decisionToDFA,_sharedContextCache);
 }

 @Override
 public String getGrammarFileName() { return "<lexer.grammarFileName>"; }

 @Override
```

```
 public String[] getRuleNames() { return ruleNames; }

 @Override
 public String getSerializedATN() { return _serializedATN; }

 @Override
 public String[] getChannelNames() { return channelNames; }

 @Override
 public String[] getModeNames()
 { return modeNames; }

 @Override
 public ATN getATN() { return _ATN; }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>
}
>>

SerializedJavaATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
<model.segments:{segment|private static final String _serializedATNSegment<i0> =
 "<segment; wrap={"+<\n><\t>"}>";}; separator="\n">
public static final String _serializedATN = Utils.join(
 new String[] {
  <model.segments:{segment | _serializedATNSegment<i0>}; separator=",\n">
 },
 ""
);
<else>
<! only one segment, can be inlined !>
public static final String _serializedATN =
 "<model.serialized; wrap={"+<\n><\t>"}>";
<endif>
public static final ATN _ATN =
 new ATNDeserializer().deserialize(_serializedATN.toCharArray());
static {
 _decisionToDFA = new DFA[_ATN.getNumberOfDecisions()];
 for (int i = 0; i \< _ATN.getNumberOfDecisions(); i++) {
  _decisionToDFA[i] = new DFA(_ATN.getDecisionState(i), i);
 }
<! org.antlr.v4.tool.DOTGenerator
 dot = new org.antlr.v4.tool.DOTGenerator(null);!>
<! System.out.println(dot.getDOT(_ATN.decisionToState.get(0), ruleNames, false));!>
<! System.out.println(dot.getDOT(_ATN.ruleToStartState[2], ruleNames, false));!>
}
```

```
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<javaTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".java"
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Java/Java.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
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*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
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*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED
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*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

tree grammar SourceGenTriggers;
options {
```

```
 language     = Java;
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
}

@header {
package org.antlr.v4.codegen;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.codegen.model.*;
import org.antlr.v4.codegen.model.decl.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.Collections;
import
 java.util.Map;
import java.util.HashMap;
}

@members {
 public OutputModelController controller;
  public boolean hasLookaheadBlock;
  public SourceGenTriggers(TreeNodeStream input, OutputModelController controller) {
   this(input);
   this.controller = controller;
  }
}

dummy : block[null, null] ;

block[GrammarAST label, GrammarAST ebnfRoot] returns [List<? extends SrcOp> omos]
  : ^( blk=BLOCK (^(OPTIONS .+))?
  {List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
    ( alternative {alts.add($alternative.altCodeBlock);} )+
   )
   {
   if ( alts.size()==1 && ebnfRoot==null) return alts;
   if ( ebnfRoot==null ) {
      $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
   }
   else {
        Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
        hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
      $omos = DefaultOutputModelFactory.list(choice);
    }
   }
  ;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
```

```
@init {
  boolean outerMost = inContext("RULE BLOCK");
}
@after {
  controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
  : a=alt[outerMost] {$altCodeBlock=$a.altCodeBlock; $ops=$a.ops;}
 ;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if ( outerMost ) controller.setCurrentOuterMostAlt(altAST.alt);
}
 : {
  List<SrcOp> elems = new ArrayList<SrcOp>();
  // TODO: shouldn't we pass $start to controller.alternative()?
  $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
  $altCodeBlock.ops = $ops = elems;
  controller.setCurrentBlock($altCodeBlock);
  }
  ^( ALT elementOptions? ( element {if ($element.omos!=null) elems.addAll($element.omos);} )+ )

 | ^(ALT elementOptions?
 EPSILON)
      {$altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost);}
  ;

element returns [List<? extends SrcOp> omos]
 : labeledElement     {$omos = $labeledElement.omos;}
 | atom[null,false]   {$omos = $atom.omos;}
 | subrule       {$omos = $subrule.omos;}
 |   ACTION       {$omos = controller.action((ActionAST)$ACTION);}
 |   SEMPRED       {$omos = controller.sempred((ActionAST)$SEMPRED);}
 | ^(ACTION elementOptions)  {$omos = controller.action((ActionAST)$ACTION);}
 |   ^(SEMPRED elementOptions)  {$omos = controller.sempred((ActionAST)$SEMPRED);}
 ;

labeledElement returns [List<? extends SrcOp> omos]
 : ^(ASSIGN ID atom[$ID,false] )   {$omos = $atom.omos;}
 | ^(PLUS_ASSIGN ID atom[$ID,false])  {$omos = $atom.omos;}
 | ^(ASSIGN ID block[$ID,null] )   {$omos = $block.omos;}
 | ^(PLUS_ASSIGN ID block[$ID,null])  {$omos = $block.omos;}
 ;

subrule returns [List<? extends SrcOp> omos]
 : ^(OPTIONAL b=block[null,$OPTIONAL])
```

```
 {
 $omos = $block.omos;
 }
| ( ^(op=CLOSURE
b=block[null,null])
 | ^(op=POSITIVE_CLOSURE b=block[null,null])
 )
 {
 List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
 SrcOp blk = $b.omos.get(0);
 CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
 alt.addOp(blk);
 alts.add(alt);
 SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
     hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
     $omos = DefaultOutputModelFactory.list(loop);
 }
|  block[null, null]     {$omos = $block.omos;}
  ;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
  : ^(SET atom[label,invert]+) {$omos = controller.set($SET, $label, invert);}
  ;

/*
setElement
 : STRING_LITERAL
 | TOKEN_REF
 | ^(RANGE STRING_LITERAL STRING_LITERAL)
 ;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
 : ^(NOT
 a=atom[$label, true])  {$omos = $a.omos;}
 | range[label]       {$omos = $range.omos;}
 | ^(DOT ID terminal[$label])
 | ^(DOT ID ruleref[$label])
  | ^(WILDCARD .)       {$omos = controller.wildcard($WILDCARD, $label);}
  | WILDCARD        {$omos = controller.wildcard($WILDCARD, $label);}
  |   terminal[label]     {$omos = $terminal.omos;}
  |   ruleref[label]     {$omos = $ruleref.omos;}
 | blockSet[$label, invert]  {$omos = $blockSet.omos;}
 ;

ruleref[GrammarAST label] returns [List<SrcOp> omos]
```

```
  : ^(RULE_REF ARG_ACTION? elementOptions?)  {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
  ;

range[GrammarAST label] returns [List<SrcOp> omos]
  : ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
  ;

terminal[GrammarAST label] returns [List<SrcOp> omos]
  :  ^(STRING_LITERAL .)   {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | STRING_LITERAL    {$omos = controller.stringRef($STRING_LITERAL, $label);}
  | ^(TOKEN_REF ARG_ACTION .) {$omos =
 controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
  | ^(TOKEN_REF .)    {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  | TOKEN_REF     {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
  ;

elementOptions
  : ^(ELEMENT_OPTIONS elementOption+)
  ;

elementOption
  : ID
  |  ^(ASSIGN ID ID)
  |  ^(ASSIGN ID STRING_LITERAL)
  |  ^(ASSIGN ID ACTION)
  |  ^(ASSIGN ID INT)
  ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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```
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```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg

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```
/*
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*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

/** How to generate rules derived from left-recursive rules.
*  These rely on recRuleAltPredicate(),
*  recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
*  templates in main language.stg
*/
group LeftRecursiveRules;

recRule(ruleName, argName, primaryAlts, opAlts, setResultAction,
      userRetvals, leftRecursiveRuleRefLabels) ::=
<<
<ruleName><if(userRetvals)>
 returns [<userRetvals>]<endif>
  :  ( {} <primaryAlts:{alt | <alt.altText> }; separator="\n       | ">
     )
     (
```

```
        <opAlts; separator="\n        | ">
      )*
  ;
>>

recRuleAlt(alt, precOption, opPrec, pred) ::= <<
{<pred>}?\<<precOption>=<opPrec>\> <alt.altText>
>>
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg
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*/
```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/TypeScriptTarget.java
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(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ATNBuilder.java
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*/

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/RuleCollector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/StarBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TestRig.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchNotSet.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleElementAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/DartTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/ActionSniffer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/AttributeDict.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Loop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Lexer.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNPrinter.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/AddToLabelList.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelWalker.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/CSharpTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/ActionAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Wildcard.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/UseDefAnalyzer.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Grammar.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/BasicFontMetrics.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/AnalysisPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarTransformPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeViewer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/Python3Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OutputFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/GoTarget.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SymbolCollector.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Attribute.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_stop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ParserFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ANTLRMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_pos.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LexerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNVisitor.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/OrderedHashMap.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/SetAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/CodeGenPipeline.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/EscapeSequenceParsing.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Rule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/DispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Sync.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/Decl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/LexerFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/JavaTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/MutableInt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/LexerATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/PHPTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ToolANTLRParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ListenerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/Trees.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/PredAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/BlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SrcOp.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Recognizer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SemPred.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/AttributeResolver.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/NotAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/v4ParserException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/PlusBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ActionSplitterListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/Graph.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RetValueRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleElement.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/SwiftTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ArgAction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ExceptionClause.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/SymbolChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_ctx.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/CppTarget.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ANTLRToolListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/StarBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/DefaultToolListener.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1Loop.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_index.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/CharSupport.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RuleAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ScopeParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/OutputModelObject.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef_start.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/UnicodeEscapes.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_channel.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ToolMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/Tool.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/target/Python2Target.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelType.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/QuantifierAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/TokenVocabParser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1AltBlock.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/AltAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_line.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/TerminalAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ParserATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/ParserFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/VisitorFile.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Choice.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/MatchSet.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/ActionTranslator.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNOptimizer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Action.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/Utils.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ErrorManager.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/RuleFunction.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/ast/GrammarAST.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ModelElement.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/AltBlock.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/dbg.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/SerializedATN.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/semantics/AttributeChecks.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/TestSetInline.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/misc/FrequencySet.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ToolANTLRLexer.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_int.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/Alternative.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/Parser.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LL1Choice.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/automata/ATNFactory.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/TreeTextProvider.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/LabeledOp.java
*
 /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarToken.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/OutputModelController.java
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*/

tree grammar BlockSetTransformer;
options {
 language   = Java;

```
 tokenVocab   = ANTLRParser;
 ASTLabelType = GrammarAST;
 output   = AST;
 filter   = true;
}

@header {
package org.antlr.v4.parse;
import org.antlr.v4.misc.Utils;
import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import
 java.util.HashSet;
import java.util.ArrayList;
import org.antlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
  this(input, new RecognizerSharedState());
  this.g = g;
}
}

topdown
  : ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
  | setAlt
  | ebnfBlockSet
  | blockSet
 ;

setAlt
 : {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
 ;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID)))))
ebnfBlockSet
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
```

```
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
 : OPTIONAL
  | CLOSURE
   | POSITIVE_CLOSURE
 ;

blockSet
@init {
boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : {inContext("RULE")}?
 // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) ( ^(ALT
elementOptions? setElement[inLexer]) )+)
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
 | {!inContext("RULE")}? // if not rule block and > 1 alt
  ^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+)
  -> ^(SET[$BLOCK.token, "SET"] setElement+)
 ;

setElement[boolean inLexer]
@after {
 GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
 : ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  |   a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1}?
  | {!inLexer}?=> ^(TOKEN_REF elementOptions)
  | {!inLexer}?=>   TOKEN_REF
  | {inLexer}?=>  ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
   {CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1
 &&
    CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1}?
  )
 ;

elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)
 ;

elementOption
```

```
 : ID
 | ^(ASSIGN id=ID v=ID)
 | ^(ASSIGN ID v=STRING_LITERAL)
 | ^(ASSIGN ID v=ACTION)
 | ^(ASSIGN ID v=INT)
 ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/BlockSetTransformer.g
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```
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  */
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/gui/GraphicsSupport.java

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*/

atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>

dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name>  {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges;
```

```
 separator="\n">
}
>>

decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator="; ">}
>>

edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>

epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
     <! rest(transition) tests for decision states: these nodes have a non-empty
 set of transitions after the first one. !>
     <if(rest(transitions))>
        {
        <! Label on the left side of the record node. !>
        <label>
        |
        <! Named ports in order on right side of record node, no display text. !>
        {<transitions:{t|\<p<i0>>}; separator="|">}}
     <else>
        <label>
     <endif>
     "
  <if(rest(transitions))>
     , shape=record, fixedsize=false
  <else>
     , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

stopstate(name,label,actionIndex,useBox) ::= <<
```

<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg
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*/

/** ANTLR tool checks output templates are compatible with tool code generation.
* For now, a simple string match used on x.y of x.y.z scheme.
* Must match Tool.VERSION during load to templates.
*
* REQUIRED.
*/

```
pythonTypeInitMap ::= [
 "bool":"False",
 "int":"0",
 "float":"0.0",
 "str":"",
 default:"None" // anything other
 than a primitive type is an object
]

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>
<parser>

>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete listener for a parse tree produced by <file.parserName>.
class <file.grammarName>Listener(ParseTreeListener):

  <file.listenerNames:{lname |
# Enter a parse tree produced by <file.parserName>#<lname>.
def enter<lname; format="cap">(self, ctx):
  pass

# Exit a parse tree produced by <file.parserName>#<lname>.
def exit<lname; format="cap">(self, ctx):
  pass

}; separator="\n">

>>


VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
```

```
 file.ANTLRVersion)>
from antlr4 import *
<header>

# This class defines a complete generic visitor for a parse tree produced by <file.parserName>.

class <file.grammarName>Visitor(ParseTreeVisitor):

   <file.visitorNames:{lname |
# Visit a parse tree produced by <file.parserName>#<lname>.
def visit<lname; format="cap">(self, ctx):
   return self.visitChildren(ctx)

}; separator="\n">

>>


fileHeader(grammarFileName, ANTLRVersion) ::= <<
# Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
   from .<superClass> import <superClass>
else:
   from <superClass> import <superClass>

<endif>
<atn>

class <parser.name> ( <if(superClass)><superClass><else>Parser<endif> ):

   grammarFileName = "<parser.grammarFileName>"

   atn = ATNDeserializer().deserialize(serializedATN())

    decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

   sharedContextCache = PredictionContextCache()

   literalNames = [ <parser.literalNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]
```

```
  symbolicNames = [ <parser.symbolicNames:{t | u<t>}; null="u\"\<INVALID>\"", separator=", ", wrap, anchor> ]

  <if(parser.rules)>
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator="\n", wrap, anchor>
  <endif>

  ruleNames =  [ <parser.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  EOF = <TokenLabelType()>.EOF
  <if(parser.tokens)>
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  <parser:(ctor)()>

  <namedActions.members>

  <funcs; separator="\n">


<if(sempredFuncs)>
  def sempred(self, localctx, ruleIndex, predIndex):
      if self._predicates == None:
          self._predicates = dict()
<parser.sempredFuncs.values:{f
|
      self._predicates[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n        ">
      pred = self._predicates.get(ruleIndex, None)
      if pred is None:
          raise Exception("No predicate with index:" + str(ruleIndex))
      else:
          return pred(localctx, predIndex)

  <sempredFuncs.values; separator="\n">
<endif>



>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
def action(self, localctx, ruleIndex, actionIndex):
  if self._actions is None:
      actions = dict()
<recog.actionFuncs.values:{f|
      actions[<f.ruleIndex>] = self.<f.name>_action }; separator="\n">
      self._actions = actions
```

```
  action = self._actions.get(ruleIndex, None)
  if action is not None:
     action(localctx, actionIndex)
  else:
     raise Exception("No registered action for:" + str(ruleIndex))

<actionFuncs.values; separator="\n">

<endif>
<if(sempredFuncs)>
def sempred(self, localctx, ruleIndex, predIndex):
   if self._predicates is None:
      preds = dict()
<recog.sempredFuncs.values:{f|
      preds[<f.ruleIndex>] = self.<f.name>_sempred}; separator="\n">
      self._predicates = preds
  pred = self._predicates.get(ruleIndex, None)
  if pred is not None:
     return pred(localctx, predIndex)
  else:
     raise Exception("No registered predicate for:" + str(ruleIndex))

<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
def __init__(self, input, output=sys.stdout):
  super(<parser.name>, self).__init__(input, output=output)
  self.checkVersion("<file.ANTLRVersion>")
  self._interp = ParserATNSimulator(self, self.atn, self.decisionsToDFA, self.sharedContextCache)
  self._predicates = None

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<

def <r.name>_action(self, localctx , actionIndex):
<actions:{index|
<if(first(actions))>
   if actionIndex == <index>:
      <actions.(index)>
<elseif(rest(actions))>
  elif actionIndex == <index>:
     <actions.(index)>
```

```
<endif> }; separator="\n">
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
def <r.name>_sempred(self, localctx, predIndex):
  <actions:{index|
<if(first(actions))>
  if predIndex == <index>:
     return <actions.(index)>
<elseif(rest(actions))>
  elif predIndex == <index>:
     return <actions.(index)>
<endif> }; separator="\n">

>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<ruleCtx>

<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self<currentRule.args:{a | , <a.escapedName>}>):

  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a
| , <a.escapedName>}>)
  self.enterRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  <if(exceptions)>
  <exceptions; separator="\n">
  <else>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  <endif>
  finally:
     <finallyAction>
     self.exitRule()
```

```
  return localctx

>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

def <currentRule.escapedName>(self, _p=0<if(currentRule.args)>, <args:{a | , <a>}><endif>):
  _parentctx = self._ctx
  _parentState = self.state
  localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, _parentState<args:{a
| , <a.escapedName>}>)
  _prevctx = localctx
  _startState = <currentRule.startState>
  self.enterRecursionRule(localctx, <currentRule.startState>, self.RULE_<currentRule.name>, _p)
  <namedActions.init>
  <locals; separator="\n">
  try:
     <code>
     <postamble; separator="\n">
     <namedActions.after>
  except RecognitionException as re:
     localctx.exception = re
     self._errHandler.reportError(self, re)
     self._errHandler.recover(self, re)
  finally:
     <finallyAction>
     self.unrollRecursionContexts(_parentctx)
  return localctx

>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>localctx = <parser.name>.<currentOuterMostAltCodeBlock.altLabel;
format="cap">Context(self, localctx)<endif>
self.enterOuterAlt(localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock,
 locals, preamble, ops) ::= <<
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
```

```
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  <error>

>>

LL1OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
token = self._input.LA(1)
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
  pass}; separator="\nel">
else:
  pass
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
if <expr>:
  <alts; separator="\n">

<!else if ( !(<followExpr>) ) <error>!>
>>


LL1StarBlockSingleAlt(choice,
 loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<preamble; separator="\n">
while <loopExpr>:
  <alts; separator="\n">
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  <iteration>
```

```
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
<preamble; separator="\n">
while True:
  <alts; separator="\n">
  self.state = <choice.stateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  <iteration>
  if not (<loopExpr>):
     break

>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = _input.LT(1)<endif>
<preamble; separator="\n">
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ ==
 <i>:
  <alt>
  pass
}; separator="\nel">

>>

OptionalBlock(choice, alts, error) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
la_ = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
<alts:{alt |
if la_ == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">

>>

StarBlock(choice, alts, sync, iteration) ::= <<
self.state = <choice.stateNumber>
self._errHandler.sync(self)
```

```
_alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)
while _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  if _alt==1<if(!choice.ast.greedy)>+1<endif>:
     <iteration>
     <alts> <! should only be one !>
  self.state = <choice.loopBackStateNumber>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

PlusBlock(choice, alts, error) ::= <<
self.state = <choice.blockStartStateNumber> <! alt block decision !>
self._errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>
while
 _alt!=<choice.exitAlt> and _alt!=ATN.INVALID_ALT_NUMBER:
  <alts:{alt|
if _alt == <i><if(!choice.ast.greedy)>+1<endif>:
  <alt>
}; separator="\nel">
  else:
     <error>
  self.state = <choice.loopBackStateNumber> <! loopback/exit decision !>
  self._errHandler.sync(self)
  _alt = self._interp.adaptivePredict(self._input,<choice.decision>,self._ctx)

>>

Sync(s) ::= "sync(<s.expecting.name>)"

ThrowNoViableAlt(t) ::= "raise NoViableAltException(self)"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" or ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
 bits.shift)>) & <bits.calculated>) != 0)
%>
```

```
isZero ::= [
"0":true,
default:false
]

offsetShiftVar(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

offsetShiftType(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<parser.name>.<shiftAmount> - <offset>)<else><parser.name>.<shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<t.type>}; separator=" or ">
%>

cases(tokens) ::= <<
if token in [<tokens:{t | <t.type>}; separator=", ">]:
>>

InvokeRule(r, argExprsChunks) ::= <<
self.state = <r.stateNumber>
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>self.<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argE
xprsChunks>)
>>

MatchToken(m) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>self.match(<parser.name>.<m.name>)
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m,
 expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
self.state = <m.stateNumber>
<if(m.labels)><m.labels:{l | <labelref(l)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr>)<endif>:
<if(m.labels)><m.labels:{l |     <labelref(l)> = }><else>    <endif>self._errHandler.recoverInline(self)
else:
  self._errHandler.reportMatch(self)
  self.consume()
>>
```

```
Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>self.matchWildcard()
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
self.state = <p.stateNumber>
if not <chunks>:
  from antlr4.error.Errors import FailedPredicateException
  raise FailedPredicateException(self, <p.predicate><if(failChunks)>, <failChunks><elseif(p.msg)>,
<p.msg><endif>)
>>

ExceptionClause(e, catchArg, catchAction)
 ::= <<
except <catchArg>:
  <catchAction>
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg, grammar)      ::= "_type = <arg>"
LexerChannelCommand(arg, grammar)   ::= "_channel = <arg>"
LexerModeCommand(arg, grammar)      ::= "_mode = <arg>"
LexerPushModeCommand(arg, grammar)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "localctx.<a.escapedName>"
LocalRef(a) ::= "localctx.<a.escapedName>"
RetValueRef(a) ::= "localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"
```

```
TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType()
 ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(None if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.text)"
TokenPropertyRef_type(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.type)"
TokenPropertyRef_line(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.line)"
TokenPropertyRef_pos(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.column)"
TokenPropertyRef_channel(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.channel)"
TokenPropertyRef_index(t) ::= "(0 if <ctx(t)>.<t.label> is None else <ctx(t)>.<t.label>.tokenIndex)"
TokenPropertyRef_int(t) ::= "(0 if <ctx(t)>.<t.label> is None else int(<ctx(t)>.<t.label>.text))"

RulePropertyRef_start(r) ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.start)"
RulePropertyRef_stop(r)  ::= "(None if <ctx(r)>.<r.label> is None else <ctx(r)>.<r.label>.stop)"
RulePropertyRef_text(r)  ::= "(None if <ctx(r)>.<r.label> is
 None else self._input.getText(<ctx(r)>.<r.label>.start,<ctx(r)>.<r.label>.stop))"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "localctx.start"
ThisRulePropertyRef_stop(r)  ::= "localctx.stop"
ThisRulePropertyRef_text(r)  ::= "self._input.getText(localctx.start, self._input.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)     ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)  ::= "self.getInvokingContext(<s.ruleIndex>).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "self.<t.escapedName> = None # <TokenLabelType()>"
TokenTypeDecl(t) ::= "self.<t.escapedName> = 0 # <TokenLabelType()> type"
TokenListDecl(t) ::= "self.<t.escapedName> = list() # of <TokenLabelType()>s"
RuleContextDecl(r) ::= "self.<r.escapedName> = None # <r.ctxName>"
RuleContextListDecl(rdecl)
 ::= "self.<rdecl.escapedName> = list() # of <rdecl.ctxName>s"

ContextTokenGetterDecl(t)      ::= <<
def <t.escapedName>(self):
  return self.getToken(<parser.name>.<t.name>, 0)
>>

// should never be called
ContextTokenListGetterDecl(t)  ::= <<
def <t.name>_list(self):
  return self.getTokens(<parser.name>.<t.name>)
>>
```

```
ContextTokenListIndexedGetterDecl(t)  ::= <<
def <t.escapedName>(self, i=None):
  if i is None:
     return self.getTokens(<parser.name>.<t.name>)
  else:
     return self.getToken(<parser.name>.<t.name>, i)
>>

ContextRuleGetterDecl(r)       ::= <<
def <r.escapedName>(self):
  return self.getTypedRuleContext(<parser.name>.<r.ctxName>,0)

>>

// should never be called
ContextRuleListGetterDecl(r)   ::= <<
def <r.name>_list(self):
  return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)

>>

ContextRuleListIndexedGetterDecl(r)   ::= <<
def <r.escapedName>(self, i=None):
  if i is None:
     return self.getTypedRuleContexts(<parser.name>.<r.ctxName>)
   else:
     return self.getTypedRuleContext(<parser.name>.<r.ctxName>,i)

>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
*  r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = self._input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = self._input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures) ::= <<
class <struct.escapedName>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
```

```
  def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.escapedName>=None}>):
      super(<parser.name>.<struct.name>, self).__init__(parent, invokingState)

 self.parser = parser
      <attrs:{a | <a>}; separator="\n">
      <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>}; separator="\n">

  <getters:{g | <g>}; separator="\n\n">

  def getRuleIndex(self):
      return <parser.name>.RULE_<struct.derivedFromName>

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
  def copyFrom(self, ctx):
      super(<parser.name>.<struct.name>, self).copyFrom(ctx)
      <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>}; separator="\n">

<endif>
  <dispatchMethods; separator="\n">
  <extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
class <struct.escapedName>(<currentRule.name; format="cap">Context):

  def __init__(self, parser, ctx): # actually a <parser.name>.<currentRule.name; format="cap">Context)
      super(<parser.name>.<struct.name>, self).__init__(parser)
      <attrs:{a | <a>}; separator="\n">
      self.copyFrom(ctx)

   <getters:{g | <g>}; separator="\n">

  <dispatchMethods; separator="\n">

>>

ListenerDispatchMethod(method) ::= <<
def <if(method.isEnter)>enter<else>exit<endif>Rule(self, listener):
  if hasattr(listener, "<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">"):
      listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)

>>

VisitorDispatchMethod(method) ::= <<
def accept(self, visitor):
  if hasattr(visitor, "visit<struct.derivedFromName; format="cap">"):
```

```
    return visitor.visit<struct.derivedFromName; format="cap">(self)
  else:
    return visitor.visitChildren(self)

>>

AttributeDecl(d) ::= "self.<d.escapedName> = <if(d.initValue)><d.initValue><else>None<endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)>localctx.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk)
 ::= "localctx"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "self.precpred(self._ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                 ::= "self._ctx.stop = self._input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState, self.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
localctx = <parser.name>.<currentAltLabel; format="cap">Context(self, <parser.name>.<ruleName;
format="cap">Context(self, _parentctx, _parentState))
<if(label)>
<if(isListLabel)>
localctx.<label>.append(_prevctx)
<else>
localctx.<label> = _prevctx
<endif>
<endif>
self.pushNewRecursionContext(localctx, _startState,
 self.RULE_<ruleName>)
>>


recRuleReplaceContext(ctxName) ::= <<
```

```
localctx = <parser.name>.<ctxName>Context(self, localctx)
self._ctx = localctx
_prevctx = localctx
>>

recRuleSetPrevCtx() ::= <<
if self._parseListeners is not None:
  self.triggerExitRuleEvent()
_prevctx = localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
# encoding: utf-8
from __future__ import print_function
from antlr4 import *
from io import StringIO
import sys

<namedActions.header>

<lexer>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
if __name__ is not None and "." in __name__:
  from .<superClass> import <superClass>
else:
  from <superClass> import <superClass>

<endif>

<atn>

class <lexer.name>(<if(superClass)><superClass><else>Lexer<endif>):

  atn = ATNDeserializer().deserialize(serializedATN())

  decisionsToDFA = [ DFA(ds, i) for i, ds in enumerate(atn.decisionToState) ]

<if(lexer.escapedChannels)>
   <lexer.escapedChannels:{c| <c> = <lexer.escapedChannels.(c)>}; separator="\n">

<endif>
<if(rest(lexer.escapedModeNames))>
  <rest(lexer.escapedModeNames):{m| <m> = <i>}; separator="\n">
```

```
<endif>
  <if(lexer.tokens)>
  <lexer.tokens:{k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
  <endif>

  channelNames = [ u"DEFAULT_TOKEN_CHANNEL", u"HIDDEN"<if (lexer.channelNames)>,
<lexer.channelNames:{c| u"<c>"}; separator=", ", wrap, anchor><endif> ]

  modeNames = [ <lexer.modes:{m| u"<m>"}; separator=", ", wrap, anchor> ]

  literalNames = [ u"\<INVALID>",
        <lexer.literalNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  symbolicNames = [ u"\<INVALID>",
        <lexer.symbolicNames:{t | u<t>}; separator=", ", wrap, anchor> ]

  ruleNames = [ <lexer.ruleNames:{r | u"<r>"}; separator=", ", wrap, anchor> ]

  grammarFileName = u"<lexer.grammarFileName>"

  def __init__(self, input=None, output=sys.stdout):

  super(<lexer.name>, self).__init__(input, output=output)
     self.checkVersion("<lexerFile.ANTLRVersion>")
     self._interp = LexerATNSimulator(self, self.atn, self.decisionsToDFA, PredictionContextCache())
     self._actions = None
     self._predicates = None

  <namedActions.members>

  <dumpActions(lexer, "", actionFuncs, sempredFuncs)>

>>

SerializedATN(model) ::= <<
def serializedATN():
  return [
     <model.serialized: {s | <s>}; separator=",", wrap>
  ]
>>

/** Using a type to init value map, try to init a type; if not in table
*  must be an object, default value is "null".
*/
initValue(typeName) ::= <<
<pythonTypeInitMap.(typeName)>
>>
```

codeFileExtension() ::= ".py"

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
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*/

/** templates used to generate make-compatible dependencies */

/** Generate "f : x, y, z" dependencies for input
* dependencies and generated files. in and out
* are File objects. For example, you can say

```
*  <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>};
 separator="\n">
>>
```

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*/

// File      : A3Lexer.g
// Author    : Jim Idle (jimi@temporal-wave.com)
// Copyright : Free BSD - See @header clause below
// Version   : First implemented as part of ANTLR 3.2 this is the self
//             hosting ANTLR 3 Lexer.
```

```
//
// Description
// -----------
// This is the definitive lexer grammar for parsing ANTLR V3.x.x grammars. All other
// grammars are
 derived from this grammar via source code control integration (perforce)
// or by the gdiff tool.
//
// This grammar and its associated grammars A3Parser.g and A3Walker.g exhibit the following
// traits, which are recommended for all production quality grammars:
//
// 1) They are separate grammars, not composite grammars;
// 2) They implement all supporting methods in a superclass (at least this is recommended
//    for language targets that support inheritance;
// 3) All errors are pushed as far down the parsing chain as possible, which means
//    that the lexer tries to defer error reporting to the parser, and the parser
//    tries to defer error reporting to a semantic phase consisting of a single
//    walk of the AST. The reason for this is that the error messages produced
//    from later phases of the parse will generally have better context and so
//    be more useful to the end user. Consider the message: "Syntax error at 'options'"
//    vs: "You cannot specify two options{}
 sections in a single grammar file".
// 4) The lexer is 'programmed' to catch common mistakes such as unterminated literals
//    and report them specifically and not just issue confusing lexer mismatch errors.
//

/** Read in an ANTLR grammar and build an AST.  Try not to do
*  any actions, just build the tree.
*
*  The phases are:
*
*  A3Lexer.g (this file)
*           A3Parser.g
*           A3Verify.g (derived from A3Walker.g)
*  assign.types.g
*  define.g
*  buildnfa.g
*  antlr.print.g (optional)
*  codegen.g
*
*  Terence Parr
*  University of San Francisco
*  2005
*  Jim Idle (this v3 grammar)
*  Temporal Wave LLC
*  2009
*/
lexer grammar ANTLRLexer;
```

```
// ============================================================================
// Note that while this grammar does not care about order of constructs
// that don't really matter, such as options before @header etc, it must first
// be parsed by the original v2 parser, before it replaces it. That parser
 does
// care about order of structures. Hence we are constrained by the v2 parser
// for at least the first bootstrap release that causes this parser to replace
// the v2 version.
// ============================================================================

// -------
// Options
//
// V3 option directives to tell the tool what we are asking of it for this
// grammar.
//
options {

 // Target language is Java, which is the default but being specific
 // here as this grammar is also meant as a good example grammar for
 // for users.
 //
 language      = Java;

 // The super class that this lexer should expect to inherit from, and
 // which contains any and all support routines for the lexer. This is
 // commented out in this baseline (definitive or normative grammar)
 // - see the ANTLR tool implementation for hints on how to use the super
 //   class
 //
 //superclass    = AbstractA3Lexer;
}

tokens { SEMPRED; TOKEN_REF; RULE_REF; LEXER_CHAR_SET; ARG_ACTION; }

// Include the copyright
 in this source and also the generated source
//
@lexer::header {
/*
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*/
```
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.runtime.misc.Interval;
}


@members {
 public static final int COMMENTS_CHANNEL = 2;

   public CommonTokenStream tokens; // track stream we push to; need for context info
   public boolean isLexerRule = false;

 public void grammarError(ErrorType etype, org.antlr.runtime.Token token, Object... args) { }

 /** scan backwards from current point in this.tokens list
  *  looking for the start of the rule or
 subrule.
  *  Return token or null if for some reason we can't find the start.
  */
 public Token getRuleOrSubruleStartToken() {
  if (tokens == null) return null;
  int i = tokens.index();
  int n = tokens.size();
  if (i >= n) i = n - 1; // seems index == n as we lex
  boolean withinOptionsBlock = false;
  while (i >= 0 && i < n) {
   int ttype = tokens.get(i).getType();
   if (withinOptionsBlock) {
```

```
    // Ignore rule options content
    if (ttype == OPTIONS) {
     withinOptionsBlock = false;
    }
   }
   else {
    if (ttype == RBRACE) {
     withinOptionsBlock = true;
    }
    else if (ttype == LPAREN || ttype == TOKEN_REF || ttype == RULE_REF) {
     return tokens.get(i);
    }
   }
   i--;
  }
  return null;
 }
}

// --------
// Comments
//
// ANTLR comments can be multi or single line and we don't care
// which particularly. However we also accept Javadoc style comments
// of the form: /** ... */ and we do take care to distinguish those
// from ordinary multi-line comments
//
 Note how we guide the lexical PATH because we want to issue a descriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We alo trap unterminated multi-line comments
//
fragment DOC_COMMENT : ;
COMMENT
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated comment, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = $line;
 int offset    = getCharPositionInLine();
}
  : // Eat the first character only, then see if we have a comment
    // or something silly.
    //
    '/'  // Comment introducer
```

```
(
   // Single line comment, possibly with embedded src/line directives
   // in a similar style to the C pre-processor, allowing generated
   // code to refer the programmer back to the original source code
   // in case of error.
   //

  '/'
     (
        (' $ANTLR')=> ' $ANTLR' SRC
      | ~NLCHARS*
     )

   | // Multi-line comment, which may be a documentation comment
     // if it starts /** (note that we protect against accidentally
     // recognizing a comment /**/ as a documentation comment
     //
     '*' (
         { input.LA(2) != '/'}?=> '*' { $type = DOC_COMMENT; }
       | { true }?=>  // Required to cover all alts with predicates
         )

         // Should we support embedded multiline comments here?
         //
         (
            // Pick out end of multiline comment and exit the loop
            // if we find it.
            //
            {    !(input.LA(1) == '*' && input.LA(2) == '/') }?

              // Anything else other than the non-greedy match of
              // the comment close sequence
              //
              .

        )*
     (
         // Look for the comment terminator, but if it is accidentally
         // unterminated, then we will hit EOF, which will trigger the
         // epsilon alt and hence we can issue an error message relative
         // to the start of the unterminated multi-line comment
         //
         '*/'

       | // Unterminated comment!
         //
         {
           // ErrorManager.msg(Msg.UNTERMINATED_DOC_COMMENT, startLine, offset, $pos, startLine,
```

```
offset, $pos, (Object)null);
            }
          )

      | // There was nothing that made sense following the opening '/' and so
        // we issue an error regarding the malformed comment
        //
        {
          // TODO: Insert error message relative to comment start
          //
        }
    )
    {
      // We do not wish to pass the comments in to the parser. If you are

      // writing a formatter then you will want to preserve the comments off
      // channel, but could just skip and save token space if not.
      //
      $channel=COMMENTS_CHANNEL;
    }
  ;

ARG_OR_CHARSET
options {k=1;}
  :   {isLexerRule}?=> LEXER_CHAR_SET {$type=LEXER_CHAR_SET;}
  |   {!isLexerRule}?=> ARG_ACTION
      {
      $type=ARG_ACTION;
      // Set the token text to our gathered string minus outer [ ]
      String t = $text;
      t = t.substring(1,t.length()-1);
      setText(t);
      }
  ;

fragment
LEXER_CHAR_SET
 : '['
  ( '\\' ~('\r'|'\n')
  | ~('\r'|'\n'|'\\'|']')
  )*
  ']'
 ;

// ----------
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
```

```
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
 : '['
       (

         ARG_ACTION

        | ('"')=>ACTION_STRING_LITERAL

        | ('\'')=>ACTION_CHAR_LITERAL

        | ~('['|']')
     )*

     ']'
 ;

// -------
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
 : NESTED_ACTION ( '?' {$type = SEMPRED;} )?
 ;

// ----------------
// Action structure
//
// Many language targets use {} as block delimiters and so we
// must recursively match {} delimited blocks to balance the
// braces. Additionally, we must make some assumptions about
// literal string representation in the target language. We assume
// that they are delimited
 by ' or " and so consume these
// in their own alts so as not to inadvertently match {}.
// This rule calls itself on matching a {
//
```

```
fragment
NESTED_ACTION
@init {

 // Record the start line and offsets as if we need to report an
 // unterminated block, then we want to show the start of the comment
 // we think is broken, not the end, where people will have to try and work
 // it out themselves.
 //
 int startLine = getLine();
 int offset    = getCharPositionInLine();
}

  : // Action and other blocks start with opening {
    //
  '{'
    (
    // And now we can match one of a number of embedded
    // elements within the action until we find a
    // } that balances the opening {. If we do not find
    // the balanced } then we will hit EOF and can issue
    // an error message about the brace that we believe to
    // be mismatched. This won't be foolproof but we will
    // be able to at least report an error against the
    // opening brace that we feel is in error
 and this will
    // guide the user to the correction as best we can.
    //


      // An embedded {} block
     //
     NESTED_ACTION

     | // What appears to be a literal
       //
       ACTION_CHAR_LITERAL

     | // We have assumed that the target language has C/Java
       // type comments.
       //
       COMMENT

     | // What appears to be a literal
       //
       ACTION_STRING_LITERAL

    | // What appears to be an escape sequence
```

```
      //
      ACTION_ESC

    | // Some other single character that is not
      // handled above
      //
      ~('\\'|''|'\''|'/'|'{'|'}')

    )*

(
    // Correctly balanced closing brace
    //
    '}'

  | // Looks like have an imbalanced {} block, report
    // with respect to the opening brace.
    //
    {
       // TODO: Report imbalanced {}
       System.out.println("Block starting  at line " + startLine + " offset " + (offset+1) + " contains imbalanced {} or
is missing
 a }");
    }
)
 ;


// Keywords
// --------
// Keywords may not be used as labels for rules or in any other context
// where they would be ambiguous with the keyword vs some other identifier
// OPTIONS, TOKENS, and CHANNELS must also consume the opening brace that captures
// their option block, as this is the easiest way to parse it separate
// to an ACTION block, despite it using the same {} delimiters.
//
OPTIONS      : 'options'  WSNLCHARS* '{'  ;
TOKENS_SPEC  : 'tokens'   WSNLCHARS* '{'  ;
CHANNELS     : 'channels' WSNLCHARS* '{'  ;

IMPORT       : 'import'              ;
FRAGMENT     : 'fragment'            ;
LEXER        : 'lexer'               ;
PARSER       : 'parser'              ;
GRAMMAR      : 'grammar'             ;
RETURNS      : 'returns'             ;
LOCALS       : 'locals'              ;
THROWS       : 'throws'              ;
```

```
CATCH       : 'catch'              ;
FINALLY     : 'finally'            ;
MODE        : 'mode'               ;

// -----------
//
 Punctuation
//
// Character sequences used as separators, delimiters, operators, etc
//
COLON       : ':'
            {
            // scan backwards, looking for a RULE_REF or TOKEN_REF.
            // which would indicate the start of a rule definition.
            // If we see a LPAREN, then it's the start of the subrule.
            // this.tokens is the token string we are pushing into, so
            // just loop backwards looking for a rule definition. Then
            // we set isLexerRule.
            Token t = getRuleOrSubruleStartToken();
            if ( t!=null ) {
                if ( t.getType()==RULE_REF ) isLexerRule = false;
                else if ( t.getType()==TOKEN_REF ) isLexerRule = true;
                // else must be subrule; don't alter context
            }
            }
          ;
COLONCOLON  : '::'                 ;
COMMA       : ','                  ;
SEMI        : ';'
    ;
LPAREN      : '('                  ;
RPAREN      : ')'                  ;
RARROW      : '->'                 ;
LT          : '<'                  ;
GT          : '>'                  ;
ASSIGN      : '='                  ;
QUESTION    : '?'                  ;
STAR        : '*'                  ;
PLUS        : '+'                  ;
PLUS_ASSIGN : '+='                 ;
OR          : '|'                  ;
DOLLAR      : '$'                  ;
DOT      : '.'                  ; // can be WILDCARD or DOT in qid or imported rule ref
RANGE       : '..'                 ;
AT          : '@'                  ;
POUND       : '#'                  ;
NOT         : '~'                  ;
RBRACE      : '}'                  ;
```

```
/** Allow unicode rule/token names */
ID   : a=NameStartChar NameChar*
   {
   if ( Grammar.isTokenName($a.text) ) $type = TOKEN_REF;
   else $type = RULE_REF;
   }
  ;

fragment
NameChar    :   NameStartChar

    |   '0'..'9'
        |   '_'
        |   '\u00B7'
        |   '\u0300'..'\u036F'
        |   '\u203F'..'\u2040'
        ;

fragment
NameStartChar
        :   'A'..'Z' | 'a'..'z'
        |   '\u00C0'..'\u00D6'
        |   '\u00D8'..'\u00F6'
        |   '\u00F8'..'\u02FF'
        |   '\u0370'..'\u037D'
        |   '\u037F'..'\u1FFF'
        |   '\u200C'..'\u200D'
        |   '\u2070'..'\u218F'
        |   '\u2C00'..'\u2FEF'
        |   '\u3001'..'\uD7FF'
        |   '\uF900'..'\uFDCF'
        |   '\uFDF0'..'\uFEFE'
        |   '\uFF00'..'\uFFFD'
        ; // ignores | ['\u10000-'\uEFFFF] ;

// ----------------------------
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard '' and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do
 not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//
```

```
// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
 : '\'' (('\\')=>ACTION_ESC | ~'\'' )* '\''
 ;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
 : '"' (('\\')=>ACTION_ESC | ~'"')* '"'
 ;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences
 so that we do not
// inadvertently recognize the end of a string or character when the terminating
// delimiter has been escaped.
//
fragment
ACTION_ESC
 : '\\' .
 ;

// -------
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
   ;

// -----------
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
```

```
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
    {
      // TODO: Add target specific code to change the source file name and current line number
      //
    }
  ;

// ----------
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx
 or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
  :  '\'' ( ( ESC_SEQ | ~('\\'|'\''|'\r'|'\n') ) )*
     (    '\''
     |    // Unterminated string literal
          {
          Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
          t.setLine(state.tokenStartLine);
          t.setText(state.text);
          t.setCharPositionInLine(state.tokenStartCharPositionInLine);
          grammarError(ErrorType.UNTERMINATED_STRING_LITERAL, t);
          }
     )
  ;

// A valid hex digit specification
//
fragment
HEX_DIGIT : ('0'..'9'|'a'..'f'|'A'..'F') ;

// Any kind of escaped character that we can embed within ANTLR
// literal strings.
//
fragment
ESC_SEQ
  : '\\'
      (
            // The standard escaped character set such as tab, newline, etc...
      'b'|'t'|'n'|'f'|'r'|'\''|'\\'

      | // A Java style Unicode escape sequence
        UNICODE_ESC
```

```
        | // A
Swift/Hack style Unicode escape sequence
          UNICODE_EXTENDED_ESC

       | // An illegal escape sequence
         ~('b'|'t'|'n'|'f'|'r'|'\"'|'\\'|'u') // \x for any invalid x (make sure to match char here)
         {
            Token t = new CommonToken(input, state.type, state.channel, getCharIndex()-2, getCharIndex()-1);
            t.setText(t.getText());
            t.setLine(input.getLine());
            t.setCharPositionInLine(input.getCharPositionInLine()-2);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, input.substring(getCharIndex()-
2,getCharIndex()-1));
         }
       )
  ;

fragment
UNICODE_ESC
@init {

 // Flag to tell us whether we have a valid number of
 // hex digits in the escape sequence
 //
 int hCount = 0;
}
  :   'u' // Leadin for unicode escape sequence

      // We now require 4 hex digits. Note though
      // that we accept any number of characters
      // and issue an error if we do not get
 4. We cannot
      // use an infinite count such as + because this
      // might consume too many, so we lay out the lexical
      // options and issue an error at the invalid paths.
      //
   (
      (
        HEX_DIGIT  { hCount++; }
         (
            HEX_DIGIT  { hCount++; }
           (
              HEX_DIGIT  { hCount++; }
              (
                 // Four valid hex digits, we are good
                 //
                 HEX_DIGIT { hCount++; }
```

```
                | // Three valid digits
              )

            | // Two valid digits
          )

        | // One valid digit
      )
       )
      | // No valid hex digits at all
  )

  // Now check the digit count and issue an error if we need to
  //
  {
   if (hCount < 4) {
  Interval badRange = Interval.of(getCharIndex()-2-hCount, getCharIndex());
  String lastChar = input.substring(badRange.b,
badRange.b);
  if ( lastChar.codePointAt(0)=='\" ) {
   badRange.b--;
  }
  String bad = input.substring(badRange.a, badRange.b);
  Token t = new CommonToken(input, state.type, state.channel, badRange.a, badRange.b);
  t.setLine(input.getLine());
  t.setCharPositionInLine(input.getCharPositionInLine()-hCount-2);
  grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t, bad);
   }
  }
 ;

fragment
UNICODE_EXTENDED_ESC
  :  'u{' // Leadin for unicode extended escape sequence

     HEX_DIGIT+ // One or more hexadecimal digits

     '}' // Leadout for unicode extended escape sequence

     // Now check the digit count and issue an error if we need to
     {
        int numDigits = getCharIndex()-state.tokenStartCharIndex-6;
        if (numDigits > 6) {
           Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-
1);
           t.setText(t.getText());
           t.setLine(input.getLine());
```

```
            t.setCharPositionInLine(input.getCharPositionInLine()-numDigits);
            grammarError(ErrorType.INVALID_ESCAPE_SEQUENCE, t,
input.substring(state.tokenStartCharIndex,getCharIndex()-1));
  }
     }
  ;

// ----------
// Whitespace
//
// Characters and character constructs that are of no import
// to the parser and are used to make the grammar easier to read
// for humans.
//
WS
  : (
    ' '
     | '\t'
     | '\r'
     | '\n'
     | '\f'
   )+
   {$channel=HIDDEN;}
  ;

// A fragment rule for use in recognizing end of line in
// rules like COMMENT.
//
fragment
NLCHARS
  : '\n' | '\r'
  ;

// A fragment rule for recognizing traditional whitespace
// characters within lexer rules.
//
fragment
WSCHARS
  : ' ' | '\t' | '\f'
  ;

// A fragment rule for recognizing both traditional whitespace and
// end of line markers, when we don't care to distinguish but don't
// want any action code going on.
//
fragment
WSNLCHARS
```

```
    : ' ' | '\t' | '\f' | '\n' | '\r'
   ;

// This rule allows ANTLR 4 to parse grammars using the UTF-8 encoding with a
// byte order mark. Since this Unicode character doesn't appear as a token
// anywhere else in the grammar, we can simply skip all instances of it without
// problem. This rule will not break usage of \uFEFF inside a LEXER_CHAR_SET or
// STRING_LITERAL.
UnicodeBOM
   :   '\uFEFF' {skip();}
   ;

// ------------------
// Illegal Character
//
// This is an illegal character trap which is always the last rule in the
// lexer specification. It matches a single character of any value and being
// the last rule in the file will match when no other rule knows what to do
// about the character. It is reported as an error but is not passed on to the
// parser. This means that the parser to deal with the grammar file anyway
// but we will not try to analyse or code generate from a file with lexical
// errors.
//
ERRCHAR
   : .
     {
        Token t = new CommonToken(input,
 state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
        t.setLine(state.tokenStartLine);
        t.setText(state.text);
        t.setCharPositionInLine(state.tokenStartCharPositionInLine);
        String msg = getTokenErrorDisplay(t) + " came as a complete surprise to me";
        grammarError(ErrorType.SYNTAX_ERROR, t, msg);
        state.syntaxErrors++;
        skip();
     }
   ;

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g
No license file was found, but licenses were detected in source scan.

/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  Copyright (c) 2015 Janyou
*  All rights reserved.
```

```
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*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

SwiftTypeInitMap ::= [
 "Int":"0",
 "Int64":"0",
 "Float":"0.0",
 "Double":"0.0",
 "Bool":"false",
 default:"nil" // anything other than a primitive type is an object
]
SwiftTypeMap ::= [
 "int":"Int",
 "float":"Float",
 "long":"Int64",
 "double":"Double",
 "bool":"Bool",
 "boolean":"Bool",
 default : key
]
// args must be <object-model-object>,
 <fields-resulting-in-STs>

accessLevelOpenOK(obj) ::= "<obj.accessLevel; null=\"open\">"
accessLevelNotOpen(obj) ::= "<obj.accessLevel; null=\"public\">"
```

```
ParserFile(file, parser, namedActions,contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<parser>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete listener for a parse tree produced by
* {@link <file.parserName>}.
*/
<accessLevelNotOpen(file)> protocol <file.grammarName>Listener: ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
* Enter a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)
/**
<if(file.listenerLabelRuleNames.(lname))>
* Exit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>\}.
<else>
* Exit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
  - ctx: the parse tree
*/
func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname; format="cap">Context)}; separator="\n">
```

```
}
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>

import Antlr4


/**
* This class provides an empty implementation of {@link <file.grammarName>Listener},
* which can be extended to create a listener which only needs to handle
 a subset
* of the available methods.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseListener: <file.grammarName>Listener {
    <accessLevelNotOpen(file)> init() { \}
 <file.listenerNames:{lname |

/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func enter<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}
/**
* {@inheritDoc\}
*
* \<p>The default implementation does nothing.\</p>
*/
<accessLevelOpenOK(file)> func exit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) { \}}; separator="\n">

 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func enterEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
```

```
 */
 <accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) throws { }
 /**
  * {@inheritDoc\}
  *

 * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitTerminal(_ node: TerminalNode) { }
 /**
  * {@inheritDoc\}
  *
  * \<p>The default implementation does nothing.\</p>
  */
 <accessLevelOpenOK(file)> func visitErrorNode(_ node: ErrorNode) { }
}
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This interface defines a complete generic visitor for a parse tree produced
* by {@link <file.parserName>}.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>Visitor\<T>: ParseTreeVisitor\<T> {
 <file.visitorNames:{lname |
/**
<if(file.visitorLabelRuleNames.(lname))>
* Visit a parse tree produced by the {@code <lname>\}
* labeled alternative in {@link <file.parserName>#<file.visitorLabelRuleNames.(lname)>\}.
<else>
 * Visit a parse tree produced by {@link <file.parserName>#<lname>\}.
<endif>
- Parameters:
 - ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T {
```

```
 fatalError(#function + " must be overridden")
\}
}; separator="\n">
}
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
<!package <file.genPackage>;!>
<endif>
<header>
import Antlr4

/**
* This class provides an empty implementation of {@link <file.grammarName>Visitor},
* which can be extended to create a visitor which only needs to handle a subset
* of the available methods.
*
* @param \<T> The return type of the visit operation. Use {@link Void} for
* operations with no return type.
*/
<accessLevelOpenOK(file)> class <file.grammarName>BaseVisitor\<T>: AbstractParseTreeVisitor\<T> {
 <file.visitorNames:{lname
|
/**
* {@inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* {@link #visitChildren\} on {@code ctx\}.\</p>
*/
<accessLevelOpenOK(file)> func visit<lname; format="cap">(_ ctx: <file.parserName>.<lname;
format="cap">Context) -> T? { return visitChildren(ctx) \}}; separator="\n">
}
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<!//@SuppressWarnings({"all", "warnings", "unchecked", "unused", "cast"})!>
<accessLevelOpenOK(parser)> class <parser.name>: <superClass; null="Parser"> {
```

```
internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <parser.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
         <!// decisionToDFA[i] = DFA(<parser.name>._ATN.getDecisionState(i)!,
i);!>
          decisionToDFA.append(DFA(<parser.name>._ATN.getDecisionState(i)!, i))
         }
         return decisionToDFA
   }()

internal static let _sharedContextCache = PredictionContextCache()

<if(parser.tokens)>
<accessLevelNotOpen(parser)>
enum Tokens: Int {
 case EOF = -1, <parser.tokens:{k | <k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>
}
<endif>

<accessLevelNotOpen(parser)>
<if(parser.rules)>
static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>
<endif>

<accessLevelNotOpen(parser)>
static let ruleNames: [String] = [
 <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(parser.literalNames, parser.symbolicNames,
                accessLevelNotOpen(parser))>

override <accessLevelOpenOK(parser)>
func getGrammarFileName() -> String { return "<parser.grammarFileName>" }

override <accessLevelOpenOK(parser)>
func getRuleNames() -> [String] { return <parser.name>.ruleNames
}

override <accessLevelOpenOK(parser)>
func getSerializedATN() -> [Int] { return <parser.name>._serializedATN }

override <accessLevelOpenOK(parser)>
func getATN() -> ATN { return <parser.name>._ATN }

<namedActions.members>
<parser:(ctor)()>
```

```
 <funcs; separator="\n">

<if(sempredFuncs)>
 override <accessLevelOpenOK(parser)>
 func sempred(_ _localctx: RuleContext?, _ ruleIndex: Int,  _ predIndex: Int)throws -> Bool {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case  <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
     default: return true
  }
  <!return true;!>
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>

 <accessLevelNotOpen(parser)>
 static let _ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

vocabulary(literalNames, symbolicNames, accessLevel) ::= <<
private static let _LITERAL_NAMES: [String?] = [
 <literalNames:{t | <t>}; null="nil", separator=", ", wrap,
 anchor>
]
private static let _SYMBOLIC_NAMES: [String?] = [
 <symbolicNames:{t | <t>}; null="nil", separator=", ", wrap, anchor>
]
<accessLevel>
static let VOCABULARY = Vocabulary(_LITERAL_NAMES, _SYMBOLIC_NAMES)
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
override <accessLevelOpenOK(parser)>
func action(_ _localctx: RuleContext?,  _ ruleIndex: Int, _ actionIndex: Int) throws {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 try <f.name>_action((_localctx as <f.ctxType>?), actionIndex)
  }; separator="\n">
 default: break
 }
}
<actionFuncs.values; separator="\n">
```

```
<endif>
<if(sempredFuncs)>
override <accessLevelOpenOK(parser)>
func sempred(_ _localctx: RuleContext?, _  ruleIndex: Int,_   predIndex: Int) throws -> Bool {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return try <f.name>_sempred(_localctx?.castdown(<f.ctxType>.self), predIndex)}; separator="\n">
 default: return true
 }
 <!return
 true;!>
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<

override <accessLevelOpenOK(parser)>
func getVocabulary() -> Vocabulary {
   return <p.name>.VOCABULARY
}

override <accessLevelNotOpen(parser)>
init(_ input:TokenStream) throws {
   RuntimeMetaData.checkVersion("<file.ANTLRVersion>", RuntimeMetaData.VERSION)
 try super.init(input)
 _interp = ParserATNSimulator(self,<p.name>._ATN,<p.name>._decisionToDFA,
<parser.name>._sharedContextCache)
}

>>

/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r, actions) ::= <<
private func <r.name>_action(_ _localctx: <r.ctxType>?,  _ actionIndex: Int) throws {
 switch (actionIndex) {
 <actions:{index|
case <index>:
 <actions.(index)>
  }; separator="\n">
  default: break
 }
}
>>
```

```
/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
 */
RuleSempredFunction(r, actions) ::= <<
private func <r.name>_sempred(_ _localctx: <r.ctxType>!,  _ predIndex: Int) throws -> Bool {
 switch (predIndex) {
 <actions:{index|
   case <index>:return <actions.(index)>}; separator="\n">
     default: return true
 }
 <!return true;!>
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<
<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">
@discardableResult
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelOpenOK(parser)> func
<endif><currentRule.escapedName>(<if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType> {
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, getState()<currentRule.args:{a | , <a.escapedName>}>)
 try enterRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>)
 <namedActions.init>
 <locals; separator="\n">
 defer {

    <finallyAction>
     try! exitRule()
   }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt:Int
<endif>
   <code>
  <postamble; separator="\n">
   <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
```

```
 }
 <endif>

 return _localctx
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else> <accessLevelNotOpen(parser)> final <endif>
func <currentRule.escapedName>( <if(first(args))>_ <endif><args; separator=", _">) throws ->
<currentRule.ctxType>    {
 return try <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>)
}
@discardableResult
private func <currentRule.escapedName>(_ _p<args:{a | , <a>}>:
 Int) throws -> <currentRule.ctxType>    {
 let _parentctx: ParserRuleContext? = _ctx
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType>
 _localctx = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | , <a.escapedName>}>)
 var _prevctx: <currentRule.ctxType> = _localctx
 let _startState: Int = <currentRule.startState>
 try enterRecursionRule(_localctx, <currentRule.startState>, <parser.name>.RULE_<currentRule.name>, _p)
 <namedActions.init>
 <locals; separator="\n">
 defer {
    <finallyAction>
    try! unrollRecursionContexts(_parentctx)
  }
 do {
<if(currentRule.hasLookaheadBlock)>
  var _alt: Int
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch ANTLRException.recognition(let re) {
  _localctx.exception = re
  _errHandler.reportError(self, re)
  try _errHandler.recover(self, re)
 }
```

```
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx
 =  <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
try enterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>)
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
<!//{!>
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
<!//}!>
>>

LL1AltBlock(choice, preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt | <cases(tokens=look)>
 <alt>
 break}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (<parser.name>.Tokens(rawValue: try _input.LA(1))!) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
  <alt>
 break}; separator="\n">
default:
 break
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts, preamble, error, followExpr) ::= <<
setState(<choice.stateNumber>)
```

```
try _errHandler.sync(self)
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 setState(<choice.loopBackStateNumber>)
 try _errHandler.sync(self)
 <iteration>
}
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
setState(<choice.blockStartStateNumber>) <! alt block decision !>
try _errHandler.sync(self)
<preamble; separator="\n">
repeat {
 <alts; separator="\n">
 setState(<choice.stateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 <iteration>
} while (<loopExpr>)
>>

// LL(*) stuff

AltBlock(choice,
 preamble, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
<if(choice.label)><labelref(choice.label)> = try _input.LT(1)<endif>
<preamble; separator="\n">
switch(try getInterpreter().adaptivePredict(_input,<choice.decision>, _ctx)) {
<alts:{alt |
case <i>:
 <alt>
 break}; separator="\n">
default: break
}
>>
```

```
OptionalBlock(choice, alts, error) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
switch (try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
default: break
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
setState(<choice.stateNumber>)
try _errHandler.sync(self)
_alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
while (_alt != <choice.exitAlt> && _alt != ATN.INVALID_ALT_NUMBER) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
  <alts> <! should only be one !>
 }
 setState(<choice.loopBackStateNumber>)
 try
 _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
}
>>

PlusBlock(choice, alts, error) ::= <<
setState(<choice.blockStartStateNumber>); <! alt block decision !>
try _errHandler.sync(self)
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
repeat {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break}; separator="\n">
 default:
  <error>
 }
 setState(<choice.loopBackStateNumber>); <! loopback/exit decision !>
 try _errHandler.sync(self)
 _alt = try getInterpreter().adaptivePredict(_input,<choice.decision>,_ctx)
} while (_alt != <choice.exitAlt> && _alt !=  ATN.INVALID_ALT_NUMBER)
>>
```

```
Sync(s) ::= "sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw ANTLRException.recognition(e: NoViableAltException(self))"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

//
 Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
(Int64(<shiftAmount>) & ~0x3f) == 0
>>

bitsetBitfieldComparison(s, bits) ::= <<
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((Int64(1) \<\< <offsetShift(s.varName,
bits.shift)>) & <bits.calculated>) != 0)
>>

isZero ::= [
"0": true,
default: false
]
parserName(t) ::= <%
<parser.name>.Tokens.<t.name>.rawValue
%>
offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName> == <parser.name>.Tokens.<t.name>.rawValue}; separator=" || ">
%>

cases(tokens) ::= <<
<trunc(tokens): {t | case .<t.name>:fallthrough}  ; separator="\n">
<last(tokens): {t | case .<t.name>:}  ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>)
<if(r.labels)>
try {
  let assignmentValue = try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)
  <r.labels:{l
```

```
| <labelref(l)> = assignmentValue} ; separator="\n">
   }()
<else>try
<r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>)<
endif>
>>

MatchToken(m) ::= <<
setState(<m.stateNumber>)
<if(m.labels)>
try {
  let assignmentValue = try match(<parser.name>.Tokens.<m.escapedName>.rawValue)
  <m.labels:{l | <labelref(l)> = assignmentValue}  ; separator="\n">
   }()
<else>try match(<parser.name>.Tokens.<m.escapedName>.rawValue)<endif>
>>

MatchSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
setState(<m.stateNumber>)
<if(m.labels)><m.labels:{l | <labelref(l)> = }>try _input.LT(1)<endif>
<capture>
if (<if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>)) {
 <if(m.labels)><m.labels:{l
| <labelref(l)> = }><endif>try _errHandler.recoverInline(self)<if(m.labels)> as Token<endif>
}
else {
 _errHandler.reportMatch(self)
 try consume()
}
>>

Wildcard(w) ::= <<
setState(<w.stateNumber>)
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>try matchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
setState(<p.stateNumber>)
```

```
if (!(<chunks>)) {
  throw ANTLRException.recognition(e:FailedPredicateException(self, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>))
}
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>) {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "skip()"
LexerMoreCommand()  ::= "more()"
LexerPopModeCommand() ::= "popMode()"

LexerTypeCommand(arg)      ::= "_type = <arg>"
LexerChannelCommand(arg)   ::= "_channel = <arg>"
LexerModeCommand(arg)      ::= "_mode =
 <arg>"
LexerPushModeCommand(arg)  ::= "pushMode(<arg>)"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.escapedName>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>"

TokenLabelType() ::= "<file.TokenLabelType; null={Token}>"
InputSymbolType() ::= "<file.InputSymbolType; null={Token}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getText()! : \"\")"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getType() : 0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getLine() : 0)"
TokenPropertyRef_pos(t) ::= "(<ctx(t)>.<t.label>
 != nil ? <ctx(t)>.<t.label>!.getCharPositionInLine() : 0)"
TokenPropertyRef_channel(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getChannel() : 0)"
TokenPropertyRef_index(t) ::= "(<ctx(t)>.<t.label> != nil ? <ctx(t)>.<t.label>!.getTokenIndex() : 0)"
TokenPropertyRef_int(t) ::= "(<ctx(t)>.<t.label> != nil ? Int(<ctx(t)>.<t.label>!.getText()!) : 0)"
```

```
RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.start?.description ?? \"\") : \"\")"
RulePropertyRef_stop(r)  ::= "(<ctx(r)>.<r.label> != nil ? (<ctx(r)>.<r.label>!.stop?.description ?? \"\") : \"\")"
RulePropertyRef_text(r)  ::= "(<ctx(r)>.<r.label> != nil ? try
_input.getText(<ctx(r)>.<r.label>!.start,<ctx(r)>.<r.label>!.stop) : \"\")"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "self"

ThisRulePropertyRef_start(r) ::= "_localctx.start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.stop"
ThisRulePropertyRef_text(r)  ::= "(try _input.getText(_localctx.start,
 try _input.LT(-1)))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "self"

NonLocalAttrRef(s)   ::= "((<s.ruleName;
format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName>"
SetNonLocalAttr(s, rhsChunks)   ::=
 "((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.escapedName> = <rhsChunks>"

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.append(<labelref(a.label)>)"

TokenDecl(t) ::= "<t.escapedName>: <SwiftTypeMap.(TokenLabelType())>!"
TokenTypeDecl(t) ::= "var <t.escapedName>: Int = 0"
TokenListDecl(t) ::= "<t.escapedName>: [Token] = [Token]()"
RuleContextDecl(r) ::= "<r.escapedName>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.escapedName>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, 0)
 }
>>
ContextTokenListGetterDecl(t)
 ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>() -> [TerminalNode] {
  return getTokens(<parser.name>.Tokens.<t.escapedName>.rawValue)
 }
>>
ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.escapedName>(_ i:Int) -> TerminalNode? {
  return getToken(<parser.name>.Tokens.<t.escapedName>.rawValue, i)
 }
>>
ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
```

```
 func <r.escapedName>() -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, 0)
 }
>>
ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>() -> [<r.ctxName>] {
  return getRuleContexts(<r.ctxName>.self)
 }
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
 <accessLevelOpenOK(parser)>
 func <r.escapedName>(_ i: Int) -> <r.ctxName>? {
  return getRuleContext(<r.ctxName>.self, i)
 }
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName)
 ::= "_<tokenName>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "<label>"

CaptureNextToken(d) ::= "<d.varName> = try _input.LT(1)"
CaptureNextTokenType(d) ::= "<d.varName> = try _input.LA(1)"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.escapedName>:
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | <accessLevelOpenOK(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <! <if(ctorAttrs)> <accessLevelNotOpen(parser)> init(_ parent: ParserRuleContext,_ invokingState: Int) {
super.init(parent, invokingState)  }<endif> !>
 <if(ctorAttrs)>
 <accessLevelNotOpen(parser)> convenience init(_ parent: ParserRuleContext?, _ invokingState:
 Int<ctorAttrs:{a | , _ <a>}>) {
  self.init(parent, invokingState)
  <struct.ctorAttrs:{a | self.<a.escapedName> = <a.escapedName>;}; separator="\n">
```

```
 }
 <endif>

 override <accessLevelOpenOK(parser)>
 func getRuleIndex() -> Int {
  return <parser.name>.RULE_<struct.derivedFromName>
 }
<if(struct.provideCopyFrom && struct.attrs)> <! don't need copy unless we have subclasses !>
 <accessLevelOpenOK(parser)>
 override func copyFrom(_ ctx_: ParserRuleContext) {
  super.copyFrom(ctx_)
  let ctx = ctx_ as! <struct.escapedName>
  <struct.attrs:{a | self.<a.escapedName> = ctx.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
<accessLevelNotOpen(parser)> class <struct.escapedName>: <currentRule.name; format="cap">Context {
 <attrs:{a | <accessLevelNotOpen(parser)> var <a>}; separator="\n">
 <getters:{g | <g>}; separator="\n">

 <accessLevelNotOpen(parser)>
 init(_
 ctx: <currentRule.name; format="cap">Context) {
  super.init()
  copyFrom(ctx)
 }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func <if(method.isEnter)>enter<else>exit<endif>Rule(_ listener: ParseTreeListener) {
 if let listener = listener as? <parser.grammarName>Listener {
  listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName; format="cap">(self)
 }
}
>>

VisitorDispatchMethod(method) ::= <<
override <accessLevelOpenOK(parser)>
func accept\<T>(_ visitor: ParseTreeVisitor\<T>) -> T? {
 if let visitor = visitor as? <parser.grammarName>Visitor {
```

```
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else if let visitor = visitor as? <parser.grammarName>BaseVisitor {
    return visitor.visit<struct.derivedFromName; format="cap">(self)
 }
 else {
     return visitor.visitChildren(self)
 }
}
>>

AttributeDecl(d) ::= "<d.escapedName>: <SwiftTypeMap.(d.type)><if(d.initValue)>
 = <d.initValue><else>!<endif>"

/** If we don't know location of label def x, use this template (_localctx as! <x.ctx.name> */
labelref(x) ::= "<if(!x.isLocal)>_localctx.castdown(<x.ctx.name>.self).<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr?    */
ctx(actionChunk) ::= "_localctx.castdown(<actionChunk.ctx.name>.self)"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)  ::= "precpred(_ctx, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>"
recRuleSetStopToken()                ::= "_ctx!.stop = try _input.LT(-1)"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.append(_prevctx)
<else>
_localctx.<label> = _prevctx
<endif>
<endif>
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel,
 label, isListLabel) ::= <<
_localctx = <currentAltLabel; format="cap">Context(  <ruleName; format="cap">Context(_parentctx,
_parentState))
<if(label)>
<if(isListLabel)>
(_localctx as! <currentAltLabel; format="cap">Context).<label>.append(_prevctx)
<else>
(_localctx as! <currentAltLabel; format="cap">Context).<label> = _prevctx
<endif>
<endif>
```

```
try pushNewRecursionContext(_localctx, _startState, <parser.name>.RULE_<ruleName>)
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx)
_ctx = _localctx
_prevctx = _localctx
>>

recRuleSetPrevCtx() ::= <<
if _parseListeners != nil {
  try triggerExitRuleEvent()
}
_prevctx = _localctx
>>


LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
<!package <lexerFile.genPackage>;!>
<endif>
<namedActions.header>
import Antlr4

<lexer>
>>
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<accessLevelOpenOK(lexer)> class <lexer.name>:
 <superClass; null="Lexer"> {

 internal static var _decisionToDFA: [DFA] = {
        var decisionToDFA = [DFA]()
        let length = <lexer.name>._ATN.getNumberOfDecisions()
        for i in 0..\<length {
          <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
            decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
        }
         return decisionToDFA
    }()

 internal static let _sharedContextCache = PredictionContextCache()

 <accessLevelNotOpen(lexer)>
 <if(lexer.tokens)>
 static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
 <endif>
```

```
<if(lexer.escapedChannels)>
<accessLevelNotOpen(lexer)>
static let <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>
<endif>
<if(rest(lexer.escapedModeNames))>
<accessLevelNotOpen(lexer)>
static let <rest(lexer.escapedModeNames):{m| <m>=<i>}; separator=", ", wrap, anchor>
<endif>
<accessLevelNotOpen(lexer)>
static
let channelNames: [String] = [
 "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
]

<accessLevelNotOpen(lexer)>
static let modeNames: [String] = [
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
]

<accessLevelNotOpen(lexer)>
static let ruleNames: [String] = [
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
]

<vocabulary(lexer.literalNames, lexer.symbolicNames,
                accessLevelNotOpen(lexer))>

<namedActions.members>

override <accessLevelOpenOK(lexer)>
func getVocabulary() -> Vocabulary {
 return <lexer.name>.VOCABULARY
}

<accessLevelNotOpen(lexer)>
required init(_ input: CharStream) {
    RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
 super.init(input)
 _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
<lexer.name>._sharedContextCache)
}

override <accessLevelOpenOK(lexer)>
func
getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
```

```
 func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

 override <accessLevelOpenOK(lexer)>
 func getSerializedATN() -> [Int] { return <lexer.name>._serializedATN }

 override <accessLevelOpenOK(lexer)>
 func getChannelNames() -> [String] { return <lexer.name>.channelNames }

 override <accessLevelOpenOK(lexer)>
 func getModeNames() -> [String] { return <lexer.name>.modeNames }

 override <accessLevelOpenOK(lexer)>
 func getATN() -> ATN { return <lexer.name>._ATN }

 <dumpActions(lexer, "", actionFuncs, sempredFuncs)>
 <atn>

 <accessLevelNotOpen(lexer)>
 static let _ATN: ATN = try! ATNDeserializer().deserialize(_serializedATN)
}
>>

SerializedATN(model) ::= <<
static let _serializedATN:[Int] = [
 <model.serialized: {s | <s>}; separator=",", wrap>
]
>>

/** Using a type to init value map, try to init a type; if not in table
* must be an object,
 default value is "null".
*/
initValue(typeName) ::= <<
<SwiftTypeInitMap.(typeName)>
>>

codeFileExtension() ::= ".swift"
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2012-2016 Terence Parr
*  Copyright (c) 2012-2016 Sam Harwell
*  All rights reserved.
*
```

```
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*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

lexer grammar ActionSplitter;

options { filter=true; }

@header {
package org.antlr.v4.parse;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

@members {
ActionSplitterListener delegate;

public ActionSplitter(CharStream input, ActionSplitterListener delegate) {
  this(input, new RecognizerSharedState());
  this.delegate = delegate;
}

/** force filtering
 (and return tokens). triggers all above actions. */
public List<Token> getActionTokens() {
  List<Token> chunks = new ArrayList<Token>();
  Token t = nextToken();
```

```
  while ( t.getType()!=Token.EOF ) {
     chunks.add(t);
     t = nextToken();
  }
  return chunks;
}

private boolean isIDStartChar(int c) {
 return c == '_' || Character.isLetter(c);
}
}

// ignore comments right away

COMMENT
  :   '/*' ( options {greedy=false;} : . )* '*/' {delegate.text($text);}
  ;

LINE_COMMENT
  : '//' ~('\n'|'\r')* '\r'? '\n' {delegate.text($text);}
  ;

SET_NONLOCAL_ATTR
 : '$' x=ID '::' y=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setNonLocalAttr($text, $x, $y, $expr);
  }
 ;

NONLOCAL_ATTR
 : '$' x=ID '::' y=ID {delegate.nonLocalAttr($text, $x, $y);}
 ;

QUALIFIED_ATTR
 : '$' x=ID '.' y=ID {input.LA(1)!='('}? {delegate.qualifiedAttr($text, $x, $y);}
 ;

SET_ATTR
 : '$' x=ID WS? '=' expr=ATTR_VALUE_EXPR ';'
  {
  delegate.setAttr($text, $x, $expr);
  }
 ;

ATTR
 : '$'
 x=ID {delegate.attr($text, $x);}
 ;
```

```
// Anything else is just random text
TEXT
@init {StringBuilder buf = new StringBuilder();}
@after {delegate.text(buf.toString());}
 : ( c=~('\\'| '$') {buf.append((char)$c);}
  | '\\$' {buf.append('$');}
  | '\\' c=~('$') {buf.append('\\').append((char)$c);}
  | {!isIDStartChar(input.LA(2))}? => '$' {buf.append('$');}
  )+
 ;

fragment
ID  : ('a'..'z'|'A'..'Z'|'_') ('a'..'z'|'A'..'Z'|'0'..'9'|'_')*
   ;

/** Don't allow an = as first char to prevent $x == 3; kind of stuff. */
fragment
ATTR_VALUE_EXPR
 : ~'=' (~';')*
 ;

fragment
WS : (' '|'\t'|'\n'|'\r')+
 ;
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g
No license file was found, but licenses were detected in source scan.

```
// Copyright 2016-2022 The ANTLR Project. All rights reserved.
// Licensed under the BSD-3-Clause license. See LICENSE file in the project root for license information.
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/TypeScript/TypeScript.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2013 Terence Parr
*  Copyright (c) 2013 Sam Harwell
*  All rights reserved.
*
*  Redistribution and use in source and binary forms, with or without
*  modification, are permitted provided that the following conditions
*  are met:
*
*  1. Redistributions of source code must retain the above copyright
```

```
*     notice, this list of conditions and the following disclaimer.
*  2. Redistributions in binary form must reproduce the above copyright
*     notice, this list of conditions and the following disclaimer in the
*     documentation and/or other materials provided with the distribution.
*  3. The name of the author may not be used to endorse or promote products
*     derived from this software without specific prior written permission.
*
*  THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS'' AND ANY EXPRESS OR
*  IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO,
 THE IMPLIED WARRANTIES
*  OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
*  IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT,
*  INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
*  NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
*  DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
*  THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
*  (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
*  THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/

// args must be <object-model-object>, <fields-resulting-in-STs>

ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using System.Diagnostics;
using System.Collections.Generic;
using
 Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using DFA = Antlr4.Runtime.Dfa.DFA;

<parser>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using IParseTreeListener = Antlr4.Runtime.Tree.IParseTreeListener;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete listener for a parse tree produced by
/// \<see cref="<file.parserName>"/>.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Listener : IParseTreeListener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in
 \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace
```

```
 <file.genPackage> {
<endif>
<header>

using Antlr4.Runtime.Misc;
using IErrorNode = Antlr4.Runtime.Tree.IErrorNode;
using ITerminalNode = Antlr4.Runtime.Tree.ITerminalNode;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Listener"/>,
/// which can be extended to create a listener which only needs to handle a subset
/// of the available methods.
/// \</summary>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseListener : I<file.grammarName>Listener {
 <file.listenerNames:{lname |
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
///
 Enter a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Enter<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}
/// \<summary>
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.listenerLabelRuleNames.(lname)>"/>.
<else>
/// Exit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>The default implementation does nothing.\</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
public virtual void Exit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
context) { \}}; separator="\n">

 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
```

```
 public
 virtual void EnterEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void ExitEveryRule([NotNull] ParserRuleContext context) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitTerminal([NotNull] ITerminalNode node) { }
 /// \<inheritdoc/>
 /// \<remarks>The default implementation does nothing.\</remarks>
 public virtual void VisitErrorNode([NotNull] IErrorNode node) { }
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;

/// \<summary>
/// This interface defines a complete generic visitor for a parse tree produced
/// by \<see cref="<file.parserName>"/>.
///
 \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public interface I<file.grammarName>Visitor\<Result> : IParseTreeVisitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
/// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context context);};
```

```
separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<header>
using Antlr4.Runtime.Misc;
using Antlr4.Runtime.Tree;
using IToken = Antlr4.Runtime.IToken;
using ParserRuleContext = Antlr4.Runtime.ParserRuleContext;

/// \<summary>
/// This class provides an empty implementation of \<see cref="I<file.grammarName>Visitor{Result}"/>,
/// which can be extended to create a visitor which only needs to handle a subset
/// of the available methods.
/// \</summary>
/// \<typeparam name="Result">The return type of the visit operation.\</typeparam>
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.Diagnostics.DebuggerNonUserCode]
[System.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor\<Result> : AbstractParseTreeVisitor\<Result>,
I<file.grammarName>Visitor\<Result> {
 <file.visitorNames:{lname |
/// \<summary>
<if(file.visitorLabelRuleNames.(lname))>
/// Visit a parse tree produced by the \<c><lname>\</c>
///
 labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(lname)>"/>.
<else>
/// Visit a parse tree produced by \<see cref="<file.parserName>.<lname>"/>.
<endif>
/// \<para>
/// The default implementation returns the result of calling \<see
cref="AbstractParseTreeVisitor{Result\}.VisitChildren(IRuleNode)"/>
/// on \<paramref name="context"/>.
/// \</para>
/// \</summary>
/// \<param name="context">The parse tree.\</param>
/// \<return>The visitor result.\</return>
public virtual Result Visit<lname; format="cap">([NotNull] <file.parserName>.<lname; format="cap">Context
```

```
context) { return VisitChildren(context); \}}; separator="\n">
}
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

fileHeader(grammarFileName, ANTLRVersion) ::= <<
//------------------------------------------------------------------------------
// \<auto-generated>
//     This code was generated by a tool.
//     ANTLR Version: <ANTLRVersion>
//
//     Changes to this file may
 cause incorrect behavior and will be lost if
//     the code is regenerated.
// \</auto-generated>
//------------------------------------------------------------------------------

// Generated from <grammarFileName> by ANTLR <ANTLRVersion>

// Unreachable code detected
#pragma warning disable 0162
// The variable '...' is assigned but its value is never used
#pragma warning disable 0219
// Missing XML comment for publicly visible type or member '...'
#pragma warning disable 1591
// Ambiguous reference in cref attribute
#pragma warning disable 419

>>

Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<
<Parser_(ctor="parser_ctor", ...)>
>>

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <parser.name> : <superClass; null="Parser"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(parser.tokens)>
 public
 const int
  <parser.tokens:{k | <k>=<parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(parser.rules)>
```

```
 public const int
  <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
 <endif>
 public static readonly string[] ruleNames = {
  <parser.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
 };

 <vocabulary(parser.literalNames, parser.symbolicNames)>

 public override string GrammarFileName { get { return "<parser.grammarFileName>"; } }

 public override string[] RuleNames { get { return ruleNames; } }

 public override int[] SerializedAtn { get { return _serializedATN; } }

 static <parser.name>() {
  decisionToDFA = new DFA[_ATN.NumberOfDecisions];
  for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
   decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
  }
 }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

<if(sempredFuncs)>
 public override bool Sempred(RuleContext
 _localctx, int ruleIndex, int predIndex) {
  switch (ruleIndex) {
  <parser.sempredFuncs.values:{f|
case <f.ruleIndex>: return <f.name>_sempred((<f.ctxType>)_localctx, predIndex);}; separator="\n">
  }
  return true;
 }
 <sempredFuncs.values; separator="\n">
<endif>

 <atn>
}
>>

vocabulary(literalNames, symbolicNames) ::= <<
private static readonly string[] _LiteralNames = {
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
};
private static readonly string[] _SymbolicNames = {
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
```

```
};
public static readonly IVocabulary DefaultVocabulary = new Vocabulary(_LiteralNames, _SymbolicNames);

[NotNull]
public override IVocabulary Vocabulary
{
 get
 {
  return DefaultVocabulary;
 }
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
public override void Action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case
 <f.ruleIndex> : <f.name>_action(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, actionIndex); break;};
separator="\n">
 }
}
<actionFuncs.values; separator="\n">
<endif>
<if(sempredFuncs)>
public override bool Sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {
 <recog.sempredFuncs.values:{f|
case <f.ruleIndex> : return <f.name>_sempred(<if(!recog.modes)>(<f.ctxType>)<endif>_localctx, predIndex);};
separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(parser) ::= <<
 public <parser.name>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

 public <parser.name>(ITokenStream input, TextWriter output, TextWriter errorOutput)
 : base(input, output, errorOutput)
{
 Interpreter = new ParserATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}
>>
```

```
/* This generates a private method since the actionIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleActionFunction(r,
 actions) ::= <<
private void <r.name>_action(<r.ctxType> _localctx, int actionIndex) {
 switch (actionIndex) {
 <actions:{index|
case <index>: <actions.(index)> break;}; separator="\n">
 }
}
>>

/* This generates a private method since the predIndex is generated, making an
* overriding implementation impossible to maintain.
*/
RuleSempredFunction(r, actions) ::= <<
private bool <r.name>_sempred(<r.ctxType> _localctx, int predIndex) {
 switch (predIndex) {
 <actions:{index|
case <index>: return <actions.(index)>;}; separator="\n">
 }
 return true;
}
>>

RuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,namedActions,finallyAction,postamble,exceptions)
::= <<

<if(ruleCtx)>
<ruleCtx>
<endif>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType>
 _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
```

```
 <namedActions.after>
 }
 <if(exceptions)>
 <exceptions; separator="\n">
 <else>
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 <endif>
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftFactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<a.escapedName>}>);
 EnterLeftFactoredRule(_localctx,
 <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
```

```
}
>>

// This behaves similar to RuleFunction (enterRule is called, and no adjustments
// are made to the parse tree), but since it's still a variant no context class
// needs to be generated.
LeftUnfactoredRuleFunction(currentRule,args,code,locals,namedActions,finallyAction,postamble) ::=
<<

<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>private <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context,
 State<currentRule.args:{a | , <a.escapedName>}>);
 EnterRule(_localctx, <currentRule.startState>, RULE_<currentRule.variantOf>);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  ExitRule();
 }
 return _localctx;
}
>>

LeftRecursiveRuleFunction(currentRule,args,code,locals,ruleCtx,altLabelCtxs,
 namedActions,finallyAction,postamble) ::=
<<

<ruleCtx>
<altLabelCtxs:{l | <altLabelCtxs.(l)>}; separator="\n">

[RuleVersion(<namedActions.version; null="0">)]
<if(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else>public <endif><currentRule.ctxType>
<currentRule.escapedName>(<args; separator=", ">) {
 return <currentRule.escapedName>(0<currentRule.args:{a | , <a.escapedName>}>);
```

```
}

private <currentRule.ctxType>
 <currentRule.escapedName>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<a.escapedName>}>);
 <currentRule.ctxType> _prevctx = _localctx;
 int _startState = <currentRule.startState>;
 EnterRecursionRule(_localctx, <currentRule.startState>, RULE_<currentRule.name>, _p);
 <namedActions.init>
 <locals; separator="\n">
 try {
<if(currentRule.hasLookaheadBlock)>
  int _alt;
<endif>
  <code>
  <postamble; separator="\n">
  <namedActions.after>
 }
 catch (RecognitionException re) {
  _localctx.exception = re;
  ErrorHandler.ReportError(this, re);
  ErrorHandler.Recover(this, re);
 }
 finally {
  <finallyAction>
  UnrollRecursionContexts(_parentctx);
 }
 return _localctx;
}
>>

CodeBlockForOuterMostAlt(currentOuterMostAltCodeBlock, locals, preamble, ops) ::= <<
<if(currentOuterMostAltCodeBlock.altLabel)>_localctx = new
 <currentOuterMostAltCodeBlock.altLabel; format="cap">Context(_localctx);<endif>
EnterOuterAlt(_localctx, <currentOuterMostAltCodeBlock.alt.altNum>);
<CodeBlockForAlt(currentAltCodeBlock=currentOuterMostAltCodeBlock, ...)>
>>

CodeBlockForAlt(currentAltCodeBlock, locals, preamble, ops) ::= <<
{
<locals; separator="\n">
<preamble; separator="\n">
<ops; separator="\n">
}
>>
```

```
LL1AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble; separator="\n">
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 <error>
}
>>

LL1OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch (TokenStream.LA(1)) {
<choice.altLook,alts:{look,alt| <cases(tokens=look)>
 <alt>
 break;}; separator="\n">
default:
 break;
}
>>

LL1OptionalBlockSingleAlt(choice, expr, alts,
 preamble, error, followExpr) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
if (<expr>) {
 <alts; separator="\n">
}
<!else if ( !(<followExpr>) ) <error>!>
>>

LL1StarBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<preamble; separator="\n">
while (<loopExpr>) {
 <alts; separator="\n">
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 <iteration>
}
```

```
>>

LL1PlusBlockSingleAlt(choice, loopExpr, alts, preamble, iteration) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
<preamble; separator="\n">
do {
 <alts; separator="\n">
 State = <choice.stateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 <iteration>
} while ( <loopExpr> );
>>

// LL(*) stuff

AltBlock(choice, preamble, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
<if(choice.label)><labelref(choice.label)> = TokenStream.LT(1);<endif>
<preamble;
 separator="\n">
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i>:
 <alt>
 break;}; separator="\n">
}
>>

OptionalBlock(choice, alts, error) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
switch ( Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context) ) {
<alts:{alt |
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
}
>>

StarBlock(choice, alts, sync, iteration) ::= <<
State = <choice.stateNumber>;
ErrorHandler.Sync(this);
_alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER ) {
 if ( _alt==1<if(!choice.ast.greedy)>+1<endif> ) {
  <iteration>
```

```
 <alts> <! should only be one !>
 }
 State = <choice.loopBackStateNumber>;
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
}
>>

PlusBlock(choice,
 alts, error) ::= <<
State = <choice.blockStartStateNumber>;<! alt block decision !>
ErrorHandler.Sync(this);
_alt = 1<if(!choice.ast.greedy)>+1<endif>;
do {
 switch (_alt) {
 <alts:{alt|
case <i><if(!choice.ast.greedy)>+1<endif>:
 <alt>
 break;}; separator="\n">
 default:
  <error>
 }
 State = <choice.loopBackStateNumber>;<! loopback/exit decision !>
 ErrorHandler.Sync(this);
 _alt = Interpreter.AdaptivePredict(TokenStream,<choice.decision>,Context);
} while ( _alt!=<choice.exitAlt> && _alt!=global::Antlr4.Runtime.Atn.ATN.INVALID_ALT_NUMBER );
>>

Sync(s) ::= "Sync(<s.expecting.name>);"

ThrowNoViableAlt(t) ::= "throw new NoViableAltException(this);"

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.tokens)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

// Java language spec 15.19 - shift operators mask operands rather than overflow to 0... need range test
testShiftInRange(shiftAmount) ::= <<
((<shiftAmount>) &
 ~0x3f) == 0
>>

// produces smaller bytecode only when bits.tokens contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
<bits.calculated>L) != 0)
%>
```

```
isZero ::= [
"0":true,
default:false
]

offsetShift(shiftAmount, offset) ::= <%
<if(!isZero.(offset))>(<shiftAmount> - <offset>)<else><shiftAmount><endif>
%>

bitsetInlineComparison(s, bits) ::= <%
<bits.tokens:{t | <s.varName>==<tokenType.(t.name)>}; separator=" || ">
%>

cases(tokens) ::= <<
<tokens:{t | case <tokenType.(t.name)>:}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><r.escapedName>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprs
Chunks>);
>>

MatchToken(m) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>Match(<tokenType.(m.name)>);
>>

MatchSet(m,
 expr, capture) ::= "<CommonSetStuff(m, expr, capture, false)>"

MatchNotSet(m, expr, capture) ::= "<CommonSetStuff(m, expr, capture, true)>"

CommonSetStuff(m, expr, capture, invert) ::= <<
State = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif>(<expr>) ) {
 <if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
 ErrorHandler.ReportMatch(this);
   Consume();
}
>>
```

```
Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{l | <labelref(l)> = }><endif>MatchWildcard();
>>

// ACTION STUFF

Action(a, foo, chunks) ::= "<chunks>"

ArgAction(a, chunks) ::= "<chunks>"

SemPred(p, chunks, failChunks) ::= <<
State = <p.stateNumber>;
if (!(<chunks>)) throw new FailedPredicateException(this, <p.predicate><if(failChunks)>,
<failChunks><elseif(p.msg)>, <p.msg><endif>);
>>

ExceptionClause(e, catchArg, catchAction) ::= <<
catch (<catchArg>)
 {
 <catchAction>
}
>>

// lexer actions are not associated with model objects

LexerSkipCommand()  ::= "Skip();"
LexerMoreCommand()  ::= "More();"
LexerPopModeCommand() ::= "PopMode();"

LexerTypeCommand(arg, grammar)      ::= "_type = <tokenType.(arg)>;"
LexerChannelCommand(arg, grammar)   ::= "_channel = <channelName.(arg)>;"
LexerModeCommand(arg, grammar)      ::= "_mode = <modeName.(arg)>;"
LexerPushModeCommand(arg, grammar)  ::= "PushMode(<modeName.(arg)>);"

ActionText(t) ::= "<t.text>"
ActionTemplate(t) ::= "<t.st>"
ArgRef(a) ::= "_localctx.<a.escapedName>"
LocalRef(a) ::= "_localctx.<a.escapedName>"
RetValueRef(a) ::= "_localctx.<a.escapedName>"
QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.escapedName>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<tokenType.(t.escapedName)>"
LabelRef(t) ::= "<ctx(t)>.<t.escapedName>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.escapedName)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.escapedName> = <rhsChunks>;"

TokenLabelType()
```

```
 ::= "<file.TokenLabelType; null={IToken}>"
InputSymbolType() ::= "<file.InputSymbolType; null={IToken}>"

TokenPropertyRef_text(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Text:null)"
TokenPropertyRef_type(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Type:0)"
TokenPropertyRef_line(t) ::= "(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Line:0)"
TokenPropertyRef_pos(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.CharPositionInLine:0)"
TokenPropertyRef_channel(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.Channel:0)"
TokenPropertyRef_index(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?<ctx(t)>.<tokenType.(t.label)>.TokenIndex:0)"
TokenPropertyRef_int(t) ::=
"(<ctx(t)>.<tokenType.(t.label)>!=null?int.Parse(<ctx(t)>.<tokenType.(t.label)>.Text):0)"

RulePropertyRef_start(r) ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Start):null)"
RulePropertyRef_stop(r)
 ::= "(<ctx(r)>.<r.label>!=null?(<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_text(r)  ::=
"(<ctx(r)>.<r.label>!=null?TokenStream.GetText(<ctx(r)>.<r.label>.Start,<ctx(r)>.<r.label>.Stop):null)"
RulePropertyRef_ctx(r)  ::= "<ctx(r)>.<r.label>"
RulePropertyRef_parser(r)  ::= "this"

ThisRulePropertyRef_start(r) ::= "_localctx.Start"
ThisRulePropertyRef_stop(r)  ::= "_localctx.Stop"
ThisRulePropertyRef_text(r)  ::= "TokenStream.GetText(_localctx.Start, TokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r)  ::= "_localctx"
ThisRulePropertyRef_parser(r)  ::= "this"

NonLocalAttrRef(s)   ::= <%((<s.ruleName;
format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName>%>
SetNonLocalAttr(s, rhsChunks)   ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<s.escapedName> =
<rhsChunks>;%>

AddToLabelList(a) ::= "<ctx(a.label)>.<a.listName>.Add(<labelref(a.label)>);"

TokenDecl(t) ::= "<TokenLabelType()> <tokenType.(t.escapedName)>"
TokenTypeDecl(t)
 ::= "int <tokenType.(t.escapedName)>;"
TokenListDecl(t) ::= "IList\<IToken> <tokenType.(t.escapedName)> = new List\<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.escapedName>"
RuleContextListDecl(rdecl) ::= "IList\<<rdecl.ctxName>> <rdecl.escapedName> = new List\<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>
```

```
ContextTokenGetterDecl(t)      ::=
   "[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>() { return
GetToken(<parser.name>.<tokenType.(t.name)>, 0); }"
ContextTokenListGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<tokenType.(t.name)>() { return GetTokens(<parser.name>.<tokenType.(t.name)>); }
>>
ContextTokenListIndexedGetterDecl(t)  ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <tokenType.(t.name)>(int i) {
 return GetToken(<parser.name>.<tokenType.(t.name)>, i);
}
>>
ContextRuleGetterDecl(r)       ::= <<
[System.Diagnostics.DebuggerNonUserCode]
 public <r.ctxName> <r.escapedName>() {
 return GetRuleContext\<<r.ctxName>\>(0);
}
>>
ContextRuleListGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<r.escapedName>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>
ContextRuleListIndexedGetterDecl(r)   ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <r.escapedName>(int i) {
 return GetRuleContext\<<r.ctxName>\>(i);
}
>>

LexerRuleContext() ::= "RuleContext"

/** The rule context name is the rule followed by a suffix; e.g.,
* r becomes rContext.
*/
RuleContextNameSuffix() ::= "Context"

ImplicitTokenLabel(tokenName) ::= "_<tokenType.(tokenName)>"
ImplicitRuleLabel(ruleName)   ::= "_<ruleName>"
ImplicitSetLabel(id)    ::= "_tset<id>"
ListLabelName(label)    ::= "_<label>"

CaptureNextToken(d) ::= "<d.varName> = TokenStream.LT(1);"
CaptureNextTokenType(d) ::= "<d.varName> = TokenStream.LA(1);"

StructDecl(struct,ctorAttrs,attrs,getters,dispatchMethods,interfaces,extensionMembers,signatures,
        superClass={ParserRuleContext}) ::= <<
public partial class <struct.escapedName> :
```

```
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)>, <interfaces;
separator=", "><endif> {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 <if(ctorAttrs)>public <struct.escapedName>(ParserRuleContext parent, int invokingState) : base(parent,
invokingState) { }<endif>
 public <struct.escapedName>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>)
  : base(parent, invokingState)
 {
  <struct.ctorAttrs:{a | this.<a.escapedName> = <a.escapedName>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
 public <struct.escapedName>() { }
 public virtual void CopyFrom(<struct.escapedName> context) {
  base.CopyFrom(context);
  <struct.attrs:{a
 | this.<a.escapedName> = context.<a.escapedName>;}; separator="\n">
 }
<endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
public partial class <struct.escapedName> : <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>}; separator="\n">
 public <struct.escapedName>(<currentRule.name; format="cap">Context context) { CopyFrom(context); }
 <dispatchMethods; separator="\n">
}
>>

ListenerDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
 I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
 if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

VisitorDispatchMethod(method) ::= <<
[System.Diagnostics.DebuggerNonUserCode]
public
 override TResult Accept\<TResult>(IParseTreeVisitor\<TResult> visitor) {
 I<parser.grammarName>Visitor\<TResult> typedVisitor = visitor as I<parser.grammarName>Visitor\<TResult>;
```

```
 if (typedVisitor != null) return typedVisitor.Visit<struct.derivedFromName; format="cap">(this);
 else return visitor.VisitChildren(this);
}
>>

AttributeDecl(d) ::= "<d.type> <d.escapedName><if(d.initValue)> = <d.initValue><endif>"

/** If we don't know location of label def x, use this template */
labelref(x) ::= "<if(!x.isLocal)><typedContext(x.ctx)>.<endif><x.escapedName>"

/** For any action chunk, what is correctly-typed context struct ptr? */
ctx(actionChunk) ::= "<typedContext(actionChunk.ctx)>"

// only casts _localctx to the type when the cast isn't redundant (i.e. to a sub-context for a labeled alt)
typedContext(ctx) ::= "<if(ctx.provideCopyFrom)>((<ctx.name>)_localctx)<else>_localctx<endif>"

// used for left-recursive rules
recRuleAltPredicate(ruleName,opPrec)
  ::= "Precpred(Context, <opPrec>)"
recRuleSetReturnAction(src,name)   ::= "$<name>=$<src>.<name>;"
recRuleSetStopToken()              ::= "Context.Stop = TokenStream.LT(-1);"

recRuleAltStartAction(ruleName, ctxName, label, isListLabel) ::= <<
_localctx = new <ctxName>Context(_parentctx, _parentState);
<if(label)>
<if(isListLabel)>
_localctx.<label>.Add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleLabeledAltStartAction(ruleName, currentAltLabel, label, isListLabel) ::= <<
_localctx = new <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
((<currentAltLabel; format="cap">Context)_localctx).<label>.Add(_prevctx);
<else>
((<currentAltLabel; format="cap">Context)_localctx).<label> = _prevctx;
<endif>
<endif>
PushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName)
```

```
 ::= <<
_localctx = new <ctxName>Context(_localctx);
Context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if ( ParseListeners!=null )
 TriggerExitRuleEvent();
_prevctx = _localctx;
>>


LexerFile(file, lexer, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
namespace <file.genPackage> {
<endif>
<namedActions.header>
using System;
using System.IO;
using System.Text;
using Antlr4.Runtime;
using Antlr4.Runtime.Atn;
using Antlr4.Runtime.Misc;
using DFA = Antlr4.Runtime.Dfa.DFA;

<lexer>
<if(file.genPackage)>
} // namespace <file.genPackage>
<endif>
>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<file.ANTLRVersion>")]
[System.CLSCompliant(false)]
public partial class <lexer.name> : <superClass; null="Lexer"> {
 protected static DFA[] decisionToDFA;
 protected static PredictionContextCache sharedContextCache = new PredictionContextCache();
 <if(lexer.tokens)>
 public
 const int
  <lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>
 <if(lexer.escapedChannels)>
 public const int
  <lexer.escapedChannels:{k | <k>=<lexer.escapedChannels.(k)>}; separator=", ", wrap, anchor>;
 <endif>
```

```
<if(rest(lexer.escapedModeNames))>
public const int
 <rest(lexer.escapedModeNames):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static string[] channelNames = {
 "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channelNames)>, <lexer.channelNames:{c| "<c>"};
separator=", ", wrap, anchor><endif>
};

public static string[] modeNames = {
 <lexer.modes:{m| "<m>"}; separator=", ", wrap, anchor>
};

public static readonly string[] ruleNames = {
 <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
};

<namedActions.members>

public <lexer.name>(ICharStream input)
: this(input, Console.Out, Console.Error) { }

public <lexer.name>(ICharStream input, TextWriter output, TextWriter errorOutput)
:
base(input, output, errorOutput)
{
 Interpreter = new LexerATNSimulator(this, _ATN, decisionToDFA, sharedContextCache);
}

<vocabulary(lexer.literalNames, lexer.symbolicNames)>

public override string GrammarFileName { get { return "<lexer.grammarFileName>"; } }

public override string[] RuleNames { get { return ruleNames; } }

public override string[] ChannelNames { get { return channelNames; } }

public override string[] ModeNames { get { return modeNames; } }

public override int[] SerializedAtn { get { return _serializedATN; } }

static <lexer.name>() {
 decisionToDFA = new DFA[_ATN.NumberOfDecisions];
 for (int i = 0; i \< _ATN.NumberOfDecisions; i++) {
  decisionToDFA[i] = new DFA(_ATN.GetDecisionState(i), i);
 }
}
<dumpActions(lexer, "", actionFuncs, sempredFuncs)>
```

```
 <atn>
}
>>

SerializedATN(model) ::= <<
private static int[] _serializedATN = {
 <model.serialized: {s | <s>}; separator=",", wrap>
};

public static readonly ATN _ATN =
 new ATNDeserializer().Deserialize(_serializedATN);


>>

initValue(typeName)
 ::= <<
default(<typeName>)
>>

codeFileExtension() ::= ".cs"

modeName ::= [
 "DEFAULT_MODE" : "DefaultMode",
 default : key
]

channelName ::= [
 "HIDDEN" : "Hidden",
 "DEFAULT_TOKEN_CHANNEL" : "DefaultTokenChannel",
 default : key
]

tokenType ::= [
 "EOF" : "Eof",
 default : key
]
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
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*/
/*
This file contains the actual layout of the messages emitted by ANTLR.
The text itself is coming out of the languages/*stg files, according to the chosen locale.
This file contains the default format ANTLR uses.
*/

location(file, line, column) ::= "<file>(<line>,<column>)"

message(id, text) ::= "error <id> : <text>"

report(location, message, type) ::= "<location> : <type> <message.id> : <message.text>"

wantsSingleLineMessage() ::= "true"

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.java

1.65 jinjava 2.7.0

1.65.1 Available under license :

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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/tree/parse/TokenScanner.java

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**/

Found in path(s):
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/EscapeJsFilter.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/Filter.java
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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/tag/ForTag.java
*
 /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/tag/ExtendsTag.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/Jinjava.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/interpret/Context.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/tree/TextNode.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/AbsFilter.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/util/ObjectIterator.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/tree/Node.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/tree/RootNode.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/EscapeFilter.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/util/Variable.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/tag/SetTag.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/CutFilter.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/tree/TreeParser.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/tag/IncludeTag.java
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 /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/tag/BlockTag.java
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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/tag/IfchangedTag.java
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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/LowerFilter.java
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 /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/loader/ResourceLocator.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/tree/parse/Token.java
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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/AdvancedFilter.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/RandomFilter.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/DatetimeFilter.java
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* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/tree/parse/ExpressionToken.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/AddFilter.java
* /jinjava-2-7-0-sources-jar/com/hubspot/jinjava/lib/filter/UpperFilter.java
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* /okio-3-6-0-sources-jar/nonJvmMain/okio/Buffer.kt
* /okio-3-6-0-sources-jar/commonMain/okio/BufferedSink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Timeout.kt
*
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* /okio-3-6-0-sources-jar/nonJvmMain/okio/BufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/internal/Buffer.kt
* /okio-3-6-0-sources-jar/commonMain/okio/RealBufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/Sink.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/CommonPlatform.kt
* /okio-3-6-0-sources-jar/commonMain/okio/internal/ByteString.kt
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1.68 okhttp 4.12.0

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1.69 redis 6.0.16

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1.70 fast-json-patch 2.0.7

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1.71 codemirror 5.62.0

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1.72 jsonlint 1.6.3

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JSON Lint
=========

A pure [JavaScript version](http://zaach.github.com/jsonlint/) of the service provided at jsonlint.com.

Command line interface
Install jsonlint with npm to use the command line interface:

```
npm install jsonlint -g
```

Validate a file like so:

```
jsonlint myfile.json
```

or pipe input into stdin:

```
cat myfile.json | jsonlint
```

jsonlint will either report a syntax error with details or pretty print the source if it is valid.

Options

```
$ jsonlint -h

Usage: jsonlint [file] [options]

file     file to parse; otherwise uses stdin

Options:
  -v, --version            print version and exit
  -s, --sort-keys          sort object keys
  -i, --in-place           overwrite the file
  -t CHAR, --indent CHAR   character(s) to use for indentation  [  ]
```

```
    -c, --compact           compact error display
    -V, --validate          a JSON
schema to use for validation
    -e, --environment       which specification of JSON Schema the validation file uses  [json-schema-draft-03]
    -q, --quiet             do not print the parsed json to STDOUT  [false]
    -p, --pretty-print      force pretty printing even if invalid
```

Module interface

I'm not sure why you wouldn't use the built in `JSON.parse` but you can use jsonlint from a CommonJS module:

```
  var jsonlint = require("jsonlint");

  jsonlint.parse('{"creative?": false}');
```

It returns the parsed object or throws an `Error`.

Vim Plugins

* [Syntastic](http://www.vim.org/scripts/script.php?script_id=2736)
* [sourcebeautify](http://www.vim.org/scripts/script.php?script_id=4079)

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1.73 d3 5.8.0

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1.74 bootstrap 4.3.1

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1.81 jacoco-agent 0.8.11

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 17
Automatic-Module-Name: org.jacoco.agent

Bnd-LastModified: 1697316834495
Build-Jdk: 17.0.8.1
Built-By: root
Bundle-Description: JaCoCo Agent
Bundle-License: https://www.eclipse.org/legal/epl-2.0/
Bundle-ManifestVersion: 2
Bundle-Name: JaCoCo Agent
Bundle-RequiredExecutionEnvironment: J2SE-1.5
Bundle-SymbolicName: org.jacoco.agent
Bundle-Vendor: Mountainminds GmbH & Co. KG
Bundle-Version: 0.8.11.202310140853
Eclipse-SourceReferences: scm:git:git://github.com/jacoco/jacoco.git;pat
h="org.jacoco.agent";commitId=f33756c37f1e41041d84018047b14cb394742761
Export-Package: org.jacoco.agent;version="0.8.11"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.5))"
Tool: Bnd-3.5.0.201709291849

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Found in path(s):
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/AllocatedBuffer.java

* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/AbstractProtobufList.java
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* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ExperimentalApi.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/LazyStringArrayList.java
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/protobuf-java-3-25-3-sources-jar/com/google/protobuf/ProtocolMessageEnum.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/ExtensionSchema.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/Java8Compatibility.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/UnknownFieldSetLiteSchema.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/RpcController.java
* /protobuf-java-3-25-3-sources-jar/com/google/protobuf/UnknownFieldSchema.java
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1.84 perfmark-api 0.27.0

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1.85 classmate 1.7.0

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Other developers who have contributed code are:

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1.86 angus-activation 2.0.2

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1.87 angus-mail 2.0.3

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* https://github.com/eclipse-ee4j/mail

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None

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1.97 aspect-j 1.9.21.2

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1.98 isorelax 20090621

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1.99 j2objc-annotations 3.0.0

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-->

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* /j2objc-annotations-3-0-0-jar/META-INF/maven/com.google.j2objc/j2objc-annotations/pom.xml

1.100 jacoco-core 0.8.11

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 17
Automatic-Module-Name: org.jacoco.core
Bnd-LastModified: 1697316806367
Build-Jdk: 17.0.8.1
Built-By: root
Bundle-Description: JaCoCo Core
Bundle-License: https://www.eclipse.org/legal/epl-2.0/
Bundle-ManifestVersion: 2

Bundle-Name: JaCoCo Core
Bundle-RequiredExecutionEnvironment: J2SE-1.5
Bundle-SymbolicName: org.jacoco.core
Bundle-Vendor: Mountainminds GmbH & Co. KG
Bundle-Version: 0.8.11.202310140853
Eclipse-SourceReferences: scm:git:git://github.com/jacoco/jacoco.git;pat
h="org.jacoco.core";commitId=f33756c37f1e41041d84018047b14cb394742761
Export-Package: org.jacoco.core.internal;x-internal:=true;version="0.8.1
1",org.jacoco.core.internal.analysis;x-internal:=true;version="0.8.11";
uses:="org.jacoco.core.analysis,org.jacoco.core.internal.analysis.filte
r,org.jacoco.core.internal.flow,org.objectweb.asm,org.objectweb.asm.tre
e",org.jacoco.core.internal.analysis.filter;x-internal:=true;version="0
.8.11";uses:="org.objectweb.asm.tree",org.jacoco.core.internal.data;x-i
nternal:=true;version="0.8.11",org.jacoco.core.internal.flow;x-internal
:=true;version="0.8.11";uses:="org.jacoco.core.internal.analysis,org.ob
jectweb.asm,org.objectweb.asm.commons,org.objectweb.asm.tree",org.jacoc
o.core.internal.instr;x-internal:=true;version="0.8.11";uses:="org.jaco
co.core.internal.flow,org.jacoco.core.runtime,org.objectweb.asm",org.ja
coco.core;version="0.8.11",org.jacoco.core.analysis;version="0.8.11";us
es:="org.jacoco.core.data,org.jacoco.core.internal.analysis",org.jacoco
.core.data;version="0.8.11";uses:="org.jacoco.core.internal.data",org.j
acoco.core.instr;version="0.8.11";uses:="org.jacoco.core.runtime",org.j
acoco.core.runtime;version="0.8.11";uses:="org.jacoco.core.data,org.obj
ectweb.asm",org.jacoco.core.tools;version="0.8.11";uses:="org.jacoco.co
re.data"
Import-Package: org.jacoco.core;version="[0.8.11,0.8.12)",org.jacoco.cor
e.analysis;version="[0.8.11,0.8.12)",org.jacoco.core.data;version="[0.8
.11,0.8.12)",org.jacoco.core.internal;version="[0.8.11,0.8.12)",org.jac
oco.core.internal.analysis;version="[0.8.11,0.8.12)",org.jacoco.core.in
ternal.analysis.filter;version="[0.8.11,0.8.12)",org.jacoco.core.intern
al.data;version="[0.8.11,0.8.12)",org.jacoco.core.internal.flow;version
="[0.8.11,0.8.12)",org.jacoco.core.internal.instr;version="[0.8.11,0.8.
12)",org.jacoco.core.runtime;version="[0.8.11,0.8.12)",org.objectweb.as
m;version="[9.6.0,9.7)",org.objectweb.asm.commons;version="[9.6.0,9.7)"
,org.objectweb.asm.tree;version="[9.6.0,9.7)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.5))"
Tool: Bnd-3.5.0.201709291849

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1.101 jsr305 3.0.2

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* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/Immutable.java
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* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/NotThreadSafe.java
* /jsr305-3-0-2-sources-12-jar/javax/annotation/concurrent/ThreadSafe.java

1.102 jaxb-runtime 4.0.5

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do so. If you

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from your version.
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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/mail

Third-party Content

This project leverages the following third party content.

None

Cryptography

Content may contain encryption software. The country in which you are currently may have restrictions on the import, possession, and use, and/or re-export to another country, of encryption software. BEFORE using any encryption software,

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1.104 protobuf-java-util 3.25.3

1.104.1 Available under license :

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

Manifest-Version: 1.0
Bnd-LastModified: 1708024056239
Bundle-Description: Utilities for Protocol Buffers
Bundle-DocURL: https://developers.google.com/protocol-buffers/
Bundle-License: https://opensource.org/licenses/BSD-3-Clause
Bundle-ManifestVersion: 2
Bundle-Name: Protocol Buffers [Util]
Bundle-SymbolicName: com.google.protobuf.util
Bundle-Version: 3.25.3
Export-Package: com.google.protobuf.util;version="3.25.3";uses:="com.goo
gle.protobuf,javax.annotation"
Import-Package: com.google.common.base;version="[32.0,33)",com.google.co
mmon.io;version="[32.0,33)",com.google.common.math;version="[32.0,33)",
com.google.common.primitives;version="[32.0,33)",com.google.gson;versio
n="[2.8,3)",com.google.gson.stream;version="[2.8,3)",com.google.protobu
f,javax.annotation;version="[3.0,4)",sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"
Tool: Bnd-6.4.0.202211291949
Created-By:
mergejars

Found in path(s):
* /protobuf-java-util-3-25-3-jar/META-INF/MANIFEST.MF

1.105 api-common 2.31.0

1.105.1 Available under license :

BSD-3-Clause

1.106 commons-compiler 3.1.12

1.106.1 Available under license :

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

Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin

Built-By: unkrig.arno
Build-Jdk: 11.0.11
Automatic-Module-Name: org.codehaus.commons.compiler
Bnd-LastModified: 1707216437998
Bundle-Description: Janino is a super-small, super-fast Java compiler.
Bundle-License: https://spdx.org/licenses/BSD-3-Clause.html
Bundle-ManifestVersion: 2
Bundle-Name: commons-compiler
Bundle-SymbolicName: org.codehaus.janino.commons-compiler;singleton:=tru
e
Bundle-Version: 3.1.12
Export-Package: org.codehaus.commons.compiler;uses:="org.codehaus.common
s.compiler.util.resource";version="3.1.12",org.codehaus.commons.compile
r.io;uses:="org.codehaus.commons.compiler.util";version="3.1.12",org.co
dehaus.commons.compiler.java8.java.util;version="3.1.12",org.codehaus.c
ommons.compiler.java8.java.util.function;version="3.1.12",org.codehaus.
commons.compiler.java8.java.util.stream;uses:="org.codehaus.commons.com
piler.java8.java.util.function";version="3.1.12",org.codehaus.commons.c
 ompiler.java9.java.lang.module;uses:="org.codehaus.commons.compiler.jav
a8.java.util,org.codehaus.commons.compiler.java8.java.util.stream";vers
ion="3.1.12",org.codehaus.commons.compiler.lang;uses:="org.codehaus.com
mons.compiler.util.resource";version="3.1.12",org.codehaus.commons.comp
iler.samples;version="3.1.12",org.codehaus.commons.compiler.util;uses:=
"org.codehaus.commons.compiler.util.resource";version="3.1.12",org.code
haus.commons.compiler.util.iterator;uses:="org.codehaus.commons.compile
r.util";version="3.1.12",org.codehaus.commons.compiler.util.reflect;ver
sion="3.1.12",org.codehaus.commons.compiler.util.resource;version="3.1.
12"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-2.4.1.201501161923

Name: org/codehaus/commons/compiler/java8/java/util/function/Consumer.cl
ass
SHA-256-Digest: yyveVEyFFznSQYhk/ThAMZf9h4hrGi3QTjlXLTNPgwI=

Name: org/codehaus/commons/compiler/ICookable.class
SHA-256-Digest:
 32vG7aPguRuIQEuUnKrVgxcWYJj6wxa0yRg8O+MeMrA=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$State.class
SHA-256-Digest: cq2iXwXXF4h0cGl42a/DtDKq1OFc7Hl4lSzLWq+lH90=

Name: org/codehaus/commons/compiler/AbstractCompiler$1$1.class
SHA-256-Digest: xrHfj5bARhpPoD0q2QUrpFqTs5rvD72CK2VotZPK3IQ=

Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator$Dire
ctoryNotListableException.class
SHA-256-Digest: o3MW3m1RDe9svXBxY5wsClrkkL/QI18PQtthruwj+00=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$1.class
SHA-256-Digest: FoFqUCtMKxZBu1FrzGmVqCYy1vsTtheLxBhP+0jzOZQ=

Name: org/codehaus/commons/compiler/Sandbox.class
SHA-256-Digest: O8Z7jDXrz6nLSvC61zxqACtbBTbIOvGg1AKYWAWF5ZU=

Name: org/codehaus/commons/compiler/AbstractCompiler.class
SHA-256-Digest: qCkzX2/lVadixb6Oi4XBrvNRkLoE6aHZ6qICnsOXAow=

Name: org/codehaus/commons/compiler/CompileException.class
SHA-256-Digest: dpA+Sj/QxfZpRmStLDLCIsHq1Je5rB4cSnutV2mQw+8=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$SubresourceGetter.
class
SHA-256-Digest: iNXvfqtD3mfF2+59DU3uaSg7W2xuTDzOAmJHCAOkPJ4=

Name: org/codehaus/commons/compiler/WarningHandler.class
SHA-256-Digest: rDVR14xpQAHay8WzNTB321+YqS9E629zUyrUdjGQ5co=

Name: org/codehaus/commons/compiler/util/resource/JarDirectoriesResource
Finder$1$2.class
SHA-256-Digest: Badfbk+GLhfOujROgVRVwitdcKonh8BIOXqqTo8AzHQ=

Name: org/codehaus/commons/compiler/CompilerFactoryFactory.class
SHA-256-Digest: mN6StvkZfr9RIf/rekkSmtsqr1hYzVK8eYPS98oaISc=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$4.class
SHA-256-Digest: xXJlzCKs5uZYOQDFoTtc5z9y77C5gAi2pOrACvSyo+E=

Name: org/codehaus/commons/compiler/util/resource/JarDirectoriesResource
Finder$1.class
SHA-256-Digest: NpyMUNR7AXFlc5jKeizzEck4ri+x6XFiu6/LO+EYPws=

Name: org/codehaus/commons/compiler/util/Disassembler.class
SHA-256-Digest: cF8FLXOrafswtwmOdFOsp7BuZf83Cg16oCHuXVNU/7A=

Name: org/codehaus/commons/compiler/Cookable.class
SHA-256-Digest: eSnwt08DTCm3367vcjdhYdzGZNB+UcjwieEisRlmm/w=

Name:
org/codehaus/commons/compiler/util/reflect/Methods.class
SHA-256-Digest: tpVRkNN9D+lPiEvSt9Om32dvWcUDRJdEpJbDI67hjUs=

Name: org/codehaus/commons/compiler/util/iterator/UniterableElementExcep
tion.class
SHA-256-Digest: q2MReObp0oubyls2AJSVd7qcUl/wRzmAGo7iYrFRS1c=

Name: org/codehaus/commons/compiler/util/iterator/EnumerationIterator.cl
ass
SHA-256-Digest: B/7Q3VzTw95Ukwfule67dE37oimkdShdOTvdYKnr7A0=

Name: org/codehaus/commons/compiler/util/resource/ResourceCreator.class
SHA-256-Digest: O7ri6asEJZu8kR6JldDpfSUDLjsKTpAg8nnHX0PTbw8=

Name: org/codehaus/commons/compiler/util/StringUtil.class
SHA-256-Digest: 3NBN0lHWjSBoV3WhbKGDOTnKjtrLOpL9nskNv0cSub0=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$3.clas
s
SHA-256-Digest: jz6uADyIyhKkwEwr5AoAG7qXZWAciFGJ5pXkbz3RYtw=

Name: org/codehaus/commons/compiler/IScriptEvaluator.class
SHA-256-Digest: zCgCKnDyQZsIbd7quCwMTy7ZA7bZ1bWuNlOKCoZ9RsY=

Name: org/codehaus/commons/compiler/ICompiler$1.class
SHA-256-Digest:
Q+4u8zHT6hT0OaVNVyqI6T9QLhDdOL+MkRHAuAFllXM=

Name: org/codehaus/commons/nullanalysis/NotNullByDefault.class
SHA-256-Digest: 3RP06upgNA3K+Po7P+UINCgiMVw2fXG6+XrH74X4/aw=

Name: org/codehaus/commons/compiler/java8/java/util/function/package-inf
o.class
SHA-256-Digest: 24j2YGIrnZujbyNadDNASLhAUslfS/NAyIxXr62P4vY=

Name: org/codehaus/commons/compiler/util/Predicate.class
SHA-256-Digest: QBhMIMOVikz9/zTz/6E6/xvjKCcmv83UNAwfAIo19t4=

Name: org/codehaus/commons/compiler/util/resource/FileResource.class
SHA-256-Digest: 5uHSDKinpa0IzSsC2bltAxwPELAJVDmTAmIxhO4T40Q=

Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator.clas
s
SHA-256-Digest: W8HpUGbUvlNzwtJQk4vI+2MCCHjTPNoCkG2gQJwgZqI=

Name: org/codehaus/commons/compiler/util/resource/MapResourceCreator$1.c
lass
SHA-256-Digest: 54LcZZdQIrSL5UIuDyUaOrDL4ydN0Qadz4seNHY9QhI=

Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator$1.cl
ass
SHA-256-Digest: 3ZhbusbqiYyoZeOQ4JZB+Ue4xLI2Yp/Venh6EGcE+Ic=

Name:

org/codehaus/commons/compiler/io/package-info.class
SHA-256-Digest: XUgeTVaI1q2fVV4dC2yXrYqINeZowXlfsAwhLXXoZKI=

Name: org/codehaus/commons/compiler/lang/ClassLoaders.class
SHA-256-Digest: FBvOKR7DdXl3Qca3hKrJR7G6k422znxBzf3YclWrGhQ=

Name: org/codehaus/commons/compiler/util/SystemProperties.class
SHA-256-Digest: 4uVNpErKx5gvdI69PT3FFAPnQQ9Hy2pVbaDVVVTgn6U=

Name: org/codehaus/commons/compiler/util/Numbers.class
SHA-256-Digest: m01o4KgLZwb/MV6ecvxGelESDsUQAuVoeORI4LdJqEE=

Name: org/codehaus/commons/compiler/util/resource/JarDirectoriesResource
Finder.class
SHA-256-Digest: 1XhT7UrgRtzRMd2QdTtlMMoPlDuuLdogFpHimBy7+g8=

Name: org/codehaus/commons/compiler/samples/ShippingCost.class
SHA-256-Digest: LiNzMk/rK0NemVRXE5Dg65CTnjgQsaYoAuP0f94fkP4=

Name: org/codehaus/commons/compiler/util/reflect/package-info.class
SHA-256-Digest: GFc5qKG3+8d9bvQjjDZPmRIGq9Dpabk4w+wNdT7FZRY=

Name: org/codehaus/commons/compiler/util/iterator/TransformingIterator.c
lass
SHA-256-Digest:
biTZgQF4dy3f3X890Wa4pcFLWW2etnV6ELE8Jkr3Q4I=

Name: org/codehaus/commons/compiler/util/iterator/MultiIterator.class
SHA-256-Digest: cRgFefRnXlsNURvvPqYgooOdCZxBut11CeuD1VyFUr0=

Name: org/codehaus/commons/compiler/util/resource/LazyMultiResourceFinde
r.class
SHA-256-Digest: /UtG2BD5RORAmzpTp8zGQJSlvuV0+ZBGuH6gsNFDRUk=

Name: org/codehaus/commons/compiler/util/resource/MapResourceFinder$1.cl
ass
SHA-256-Digest: 46x2Qcs9xOpDKnNLWXtw6LnpiQV2ErmEPvowZeAodD4=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$2.class
SHA-256-Digest: bwtOZyX4sv2yIUNym2xSWMOZ9uK1ULIuZjIiw+MtRe8=

Name: org/codehaus/commons/compiler/io/Readers$4.class
SHA-256-Digest: jOByYwIBQkvS4yvNmyVP5iSrahk97cK2VgJrI3g5nIg=

Name: org/codehaus/commons/compiler/util/resource/package-info.class
SHA-256-Digest: So/SohYI3ApHYTN6LKQFYx8XEGYTd5n8Xe+DzYAXXig=

Name: org/codehaus/commons/compiler/util/resource/DirectoryResourceFinde

r.class
SHA-256-Digest: mmPEvjAFzmQGRMvcv3Wf8/H+xtICeFhhm7eK2UpjiHg=

Name: org/codehaus/commons/compiler/InternalCompilerException.class
SHA-256-Digest:
NbSZ50IPM8VliOnV3CC5RP86FGl+jWQDpqa2dh6Nfl4=

Name: org/codehaus/commons/compiler/util/reflect/Proxies$1.class
SHA-256-Digest: AKUpWgYX5160damRTi6fTou1xNuYZFAqYcOJUwmCTnE=

Name: org/codehaus/commons/compiler/util/resource/MultiResourceFinder.cl
ass
SHA-256-Digest: lBLO3PISw9rFLn9W36rP//LTdIosq3O5MsiaMSyCXdY=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$3$1.class
SHA-256-Digest: A2IL/oDadQcS2N/cRCsd/vixYl/UhoP+eZgntzhBXIg=

Name: org/codehaus/commons/compiler/AbstractJavaSourceClassLoader$Protec
tionDomainFactory.class
SHA-256-Digest: zR+g4+6UU61cOD1QKpiC0bLQ6UzsAmUVs8uqG2DHWjI=

Name: org/codehaus/commons/compiler/samples/package-info.class
SHA-256-Digest: TpFegjd0zcgyuM9fG7+wf1Sl3SBAgH0OTntXkLPdX+A=

Name: org/codehaus/commons/compiler/util/reflect/NoException.class
SHA-256-Digest: EEOUtQZVgufQcUDUzA+TRA02MDLK28ABKHn1AjBNJO4=

Name: org/codehaus/commons/compiler/util/Benchmark$Reporter.class
SHA-256-Digest: lj/jmnOX43C786kuFqlPeMLnMNv3wk93N+R7LEUQeZU=

Name:
org/codehaus/commons/compiler/util/resource/LocatableResource.clas
s
SHA-256-Digest: NkU4xSsGceZP+NMgtTYIJV4XyHVgtpof9eo+gRuBjxY=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$2.class
SHA-256-Digest: AF1qBZtVir3z1FQ2kRI/wseoOvuAH5eYilidy1VLoGw=

Name: org/codehaus/commons/compiler/io/Readers$3.class
SHA-256-Digest: dxVnSlbHmFb6/eOZNAEDMaDVLWXxDHCUfPdT8CtAUl8=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$1.class
SHA-256-Digest: BC8qYSvHd9vY/PPHSYKEYJCHzEyfb7ldZBgsuTcZG7Q=

Name: org/codehaus/commons/compiler/java8/java/util/function/Consumers$1
.class
SHA-256-Digest: +BsdwiNshdXIoXo86OS5eKFwfM9sUcsRMCE/nLaXPh4=

Name: org/codehaus/commons/compiler/util/resource/FileResourceCreator.cl
ass
SHA-256-Digest: hVapZemhwfEXUn4ac64TVdiUilVMUPG2g1y1uZDcSE8=

Name: org/codehaus/commons/compiler/util/resource/MapResourceFinder$2.cl
ass
SHA-256-Digest: wwAA9e8ii8exp4zwKqSeMnwBLfwwhigzmxIYiB0oSY8=

Name: META-INF/maven/org.codehaus.janino/commons-compiler/pom.properties
SHA-256-Digest:
OojNHPtP4Qx/1AQMuOPV3K+Mze0dSOZQoit/JwR4r4c=

Name: org/codehaus/commons/compiler/IClassBodyEvaluator.class
SHA-256-Digest: me7O9Y5d9BKRdRFJROmU/PrWUEGbBL0Prg6xkdTO6nE=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinder$1.class
SHA-256-Digest: htFfyuC21xrOJOLYFh0mrHkCQfOjzCvW4j8Y/02SRlo=

Name: org/codehaus/commons/compiler/util/iterator/TraversingIterator.cla
ss
SHA-256-Digest: cG5Vi2pMS6XgSSadOtaFKsCQ70x8edG4Kjhxm9CBt6c=

Name: org/codehaus/commons/compiler/samples/ClassBodyDemo.class
SHA-256-Digest: UZct4dqu48MLpRltoaOiDaiOYSBGSyjbCfliuS5o5i0=

Name: org/codehaus/commons/compiler/util/iterator/IteratorCollection$1.c
lass
SHA-256-Digest: PUsSBL1RPUQjFDOnQqLEsBFwjUEqj36aqx4YrUqx8Gc=

Name: org/codehaus/commons/compiler/util/iterator/MultiDimensionalIterat
or.class
SHA-256-Digest: ByAMXrWz1pywojfID83/0txlEinv2iQRFZg8kp+8R24=

Name: org/codehaus/commons/compiler/util/LineAndColumnTracker.class
SHA-256-Digest:
5BW1/fnkmqU0pAYBgdSl53PGXZDbKWyPRNncXNQ2vXs=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$3.class
SHA-256-Digest: ckonoGZRo9dGxsH5RgSaJC5aOl/iGKR6FsKtEjGxE48=

Name: org/codehaus/commons/compiler/IExpressionEvaluator.class
SHA-256-Digest: dUJlKL6ZflMchAZR64zPkFEWBIV8cYQRszB28tfUFOE=

Name: org/codehaus/commons/compiler/Location.class
SHA-256-Digest: ncdXUj4FBCmKQ7o+0wt0sbctEjUOR4FCCvidxLx/dYs=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$1.clas
s

SHA-256-Digest: UjjEm4uDeVfU+KnTtoNWHjmsJ60TwhK0uWJ6uIREEuU=

Name: org/codehaus/commons/compiler/IMultiCookable.class
SHA-256-Digest: Er2fAVQ9gBdUgHPw1W+UPENWF5As8EIytfYawXNq2Uo=

Name: org/codehaus/commons/compiler/java8/java/util/package-info.class
SHA-256-Digest: fFVZJl03fcO1loQDdzsE83DpCpzuurzbgvcVemHTJHk=

Name: org/codehaus/commons/compiler/util/Producer.class
SHA-256-Digest: jvb44Ya4BrDZxty4fqsWe3noksi4iAFxvHtsFmjofWM=

Name: org/codehaus/commons/compiler/ICompiler$2.class
SHA-256-Digest: si5f3R8haA+j4Wi2uorNgKyJukPNZmiJRv81hxgm1CA=

Name:
org/codehaus/commons/compiler/package-info.class
SHA-256-Digest: 887eVzf0DbArS+JAVXdw7M7oaKNUVo50RY8WjZh8hN0=

Name: org/codehaus/commons/compiler/util/resource/PathResourceFinder$1.c
lass
SHA-256-Digest: dxPSHpVFS/57wzUbQ81tepv1JfnRiuvPpxbYDNd6y7A=

Name: org/codehaus/commons/compiler/util/resource/ListableResourceFinder
.class
SHA-256-Digest: vTesI9l+7efRN/LKdCH7DUYacEe5WE2UIYm38EKNv3s=

Name: org/codehaus/commons/compiler/samples/CompilerDemo.class
SHA-256-Digest: dqLwQNd2dK9yH9vaRHiEvucwLzhCp5NI2HiaamtQWR8=

Name: org/codehaus/commons/compiler/io/InputStreams.class
SHA-256-Digest: VkXB74W7MBSjy5Kyj4CspOfw8UuxLeNTjJ86PpOZH2w=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$2.clas
s
SHA-256-Digest: b+T7rYzgGyJEhXhV7g1jM9p4HzGjZzMWbSlf6Mz2+RM=

Name: org/codehaus/commons/compiler/Sandbox$1.class
SHA-256-Digest: AwOwlvN5hagkaIO1JY5+j9JkLeOMJN4CL+xG/AsPRnE=

Name: org/codehaus/commons/compiler/util/resource/FileResourceFinder.cla
ss
SHA-256-Digest: lUNwSdgY461ISzd4+EqaYP+fzZg+d8mJGRqYHJW/iLA=

Name: org/codehaus/commons/compiler/io/Readers$2.class
SHA-256-Digest: L7/kQpRVycMyAG4FFNh7d2iMt5Jzpq5nTApQsbBucEk=

Name: org/codehaus/commons/compiler/AbstractCompilerFactory.class
SHA-256-Digest: xMuC5AGMazavoPychGQ50aO8zUoomAIc5/znPaUm5T8=

Name: org/codehaus/commons/compiler/util/resource/Resource.class
SHA-256-Digest: 8wWK9rWF796+mRllHfZunNGWhqaBpnJcb85Goi8l17U=

Name: org/codehaus/commons/compiler/util/reflect/ApiLog.class
SHA-256-Digest: U6pUX63nFLE/Cd1cnK7ykjFJ4pkt/4JyQTvBUA8KeEA=

Name: org/codehaus/commons/compiler/util/Benchmark.class
SHA-256-Digest: 0j71zOYfv+3Q/TL5VnCRI/mrjbasPuRtmbZsc/oN6hY=

Name: org/codehaus/commons/compiler/util/reflect/Classes.class
SHA-256-Digest: h1gDDH5c9vl8OxtW6l4VZKVn/zzPqT9YqLBkUb9YM8A=

Name: org/codehaus/commons/compiler/util/iterator/package-info.class
SHA-256-Digest: nUfKAGwAmGnRd++1P7sgHLBTZASpPtJqy2XSfLkqO6A=

Name: org/codehaus/commons/compiler/util/reflect/ByteArrayClassLoader.cl
ass
SHA-256-Digest: Qz/H3/NnWZiz9kv+vET1yu2zkigZ092Oi+qgqX0yoGM=

Name: org/codehaus/commons/compiler/lang/ClassLoaders$3.class
SHA-256-Digest: 5A6ZKvkzxjttJjC87ueediHXvSjw5J9brND7LQWwFco=

Name: org/codehaus/commons/compiler/util/resource/MapResourceCreator.cla
ss
SHA-256-Digest: Y9yO0Cz1B22XLnBLsZVSaBaM1Wt8tPTFspzSCcmT5aA=

Name: org/codehaus/commons/compiler/util/iterator/Iterables.class
SHA-256-Digest: YIBZCwwaqPcj6D4z70K0hZVWQGLJzZsjUrNpS2XxJ7E=

Name: org/codehaus/commons/compiler/util/resource/MapResourceFinder.clas
s
SHA-256-Digest: c7GR2rnbUk+f4SG+oHCp9FdAKxoqVKesN38XyFQWEbk=

Name: org/codehaus/commons/compiler/java8/java/util/Optional.class
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SHA-256-Digest: SAKw5alTn/OI4x9ycA33I+rtJd8386T9lfORG/Puns4=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders.class
SHA-256-Digest: sp/qKLc7WHRlItLK+GeCZK0gqXYjt15SltvtPDL0KXI=

Name:
org/codehaus/commons/compiler/util/iterator/FilterListIterator.cla
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SHA-256-Digest: iuxi0gtsbwHdhGcvvHXB2ZwI1i5NGS9WUv0FdVXv6T4=

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SHA-256-Digest: /+thSN7/idRqf8CNwLz08cHtmAaqKpFWqCZEuTMRr0c=

Name: org/codehaus/commons/compiler/ICompiler.class
SHA-256-Digest: KmDjbsJE/ke99Nc0iUza4niHKfHJlVNchii+Q8kIP/Q=

Name: org/codehaus/commons/compiler/samples/DemoBase.class
SHA-256-Digest: ZZpcepcTatG3QHJWNzeWF1ym7VWvBLqV4n3YFemKMlg=

Name: org/codehaus/commons/compiler/ICompilerFactory.class
SHA-256-Digest: Bzf7xD7rSDoGcPMoLY/8mMcCqWHGzTopgBBmYq1APus=

Name: org/codehaus/commons/compiler/lang/package-info.class
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SHA-256-Digest: Dmm/9J3q70H+ohm1oZW8T/lpxWXYka8IZl/eVTFdjpE=

Name: org/codehaus/commons/compiler/util/resource/ZipFileResourceFinder.
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SHA-256-Digest: sOphxLr5U2orDT8VC8hnSJ5Ap4Fs157GThHNz4oClgo=

Name:
 org/codehaus/commons/compiler/util/iterator/ProducerIterator.class
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Name: org/codehaus/commons/compiler/AbstractJavaSourceClassLoader.class
SHA-256-Digest: AL929CU0G8T0y6Perz9FMMIjBa/RooBb8Se7HC+hG4Y=

Name: org/codehaus/commons/compiler/util/reflect/ApiLog$1.class
SHA-256-Digest: ZNuC3cywNn0vlqZQxVQzjgdrXiNatizEcZvspeJ0htM=

Name: org/codehaus/commons/compiler/util/Benchmark$1.class
SHA-256-Digest: 3EOtYw0o0CkK0PJSq5NISlxRvhY5FriwOqBZZELbstE=

Name: org/codehaus/commons/compiler/ErrorHandler.class
SHA-256-Digest: bgYLFtUx61nbqZvjuGYdIXs1P/0sftEcyreBXqGfej0=

Name: org/codehaus/commons/compiler/java8/java/util/stream/Stream.class
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Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$4.clas
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SHA-256-Digest: YjS7jWfLzjUBhPloJjzYluTw7l06QzgyfRT78rYAvQw=

Name: org/codehaus/commons/compiler/samples/ScriptDemo.class
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1.class
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Name: org/codehaus/commons/compiler/util/resource/StringResource.class
SHA-256-Digest: R7gaVCuO0Gr4cPPlasaX89oEwdI6rWnNVvvOaFaoEBU=

Name: org/codehaus/commons/compiler/util/iterator/DirectoryIterator1St
ate.class
SHA-256-Digest: 53rHiBMyDO9kuaiMI/idefkdv+p7xDZ95TEuQNZB4t0=

Name: org/codehaus/commons/compiler/util/StringPattern.class
SHA-256-Digest: YUvjzsiZqyu0bnf1sxP5TSOyIEpVSwLydfm64OAlxtI=

Name: org/codehaus/commons/nullanalysis/NotNull.class
SHA-256-Digest: k9YrBG/+DemF1QfxI+dDJ5P0MU7CkEDFntxYMbyV3AY=

Name: org/codehaus/commons/compiler/io/Readers.class
SHA-256-Digest: go0B+M5FQNIPLHiOx+TFzp92k0xq11P2sRKagE82Swo=

Name: org/codehaus/commons/compiler/util/resource/PathResourceFinder.cla
ss
SHA-256-Digest: k/VEMCAeSL/tmIirtbZFjR5A3doIpZqQ6qn5qxd+6KA=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinder.class
SHA-256-Digest:
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Name: org/codehaus/commons/compiler/io/Readers$1.class
SHA-256-Digest: KXW85uGRvj60RDhpniO7eCpx2bRLHH5Y9wIyS6IoNcs=

Name: org/codehaus/commons/compiler/java9/java/lang/module/package-info.
class
SHA-256-Digest: k6E2eHaJkpny9dqcVEy/WMqCsFDA65Aqgqj/enWeXuE=

Name: org/codehaus/commons/compiler/util/ResourceFinderClassLoader.class
SHA-256-Digest: ildJffilEKrtjPgoRZEKDvT4uVw3I1HSjmtgyjVUi6I=

Name: org/codehaus/commons/compiler/util/iterator/MultiDimensionalIterat
or$1.class
SHA-256-Digest: vxMcroasCjCRbi5XRDHeXVZmPbmVvGr9uQRDO9wiwK4=

Name: org/codehaus/commons/compiler/util/resource/DirectoryResourceCreat
or.class
SHA-256-Digest: KcUOrZXRD61R4MBVw7Xepk25FFaE5/1Stue8JPqYSsc=

Name: org/codehaus/commons/compiler/util/LineAndColumnTracker$1.class
SHA-256-Digest: sJX8ub/Yg/MuKfSjo5EFiqdOMznnoC8t9nJ5cl6nv8Q=

Name: org/codehaus/commons/compiler/java8/java/util/function/Consumers.c
lass
SHA-256-Digest:
nphMP3BopRV+TGLfPq0bDipCLVvg2PYspEhIWHCwr/k=

Name: org/codehaus/commons/compiler/ISimpleCompiler.class
SHA-256-Digest: uOn2B3lVJsQSBUuNM3LjiixU22pRxfpqf4336eoSfTQ=

Name: org/codehaus/commons/compiler/util/resource/JarDirectoriesResource
Finder$1$1.class
SHA-256-Digest: 0JNEzu68SHOTz3VPiC1wylZXtYCt0EAikHznsbUjpwM=

Name: org/codehaus/commons/compiler/util/reflect/Proxies.class
SHA-256-Digest: kln8nCUT5BUMc7A5r3TihMeRkrgsoLd4IEbb8s5UiSw=

Name: org/codehaus/commons/compiler/java9/java/lang/module/ModuleReader.
class
SHA-256-Digest: Ug6Oowwq0uvLgpWvdJkygJfVxDFK1qnndO9WtLaedh8=

Name: org/codehaus/commons/compiler/java8/java/util/stream/package-info.
class
SHA-256-Digest: kTcAF1pQdiBpSVyMogGfsCR6e+PEbbGIm1XULCNvOi8=

Name: org/codehaus/commons/compiler/LocatedException.class
SHA-256-Digest: JeoWpqsowCKvH1RHc4W1gOyXl1VU950e5e4nMK3TKkI=

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SHA-256-Digest: FlXVZtN+k9LalfH2u1BOYTARE9OHNEVeicIwG1mv7QY=

Name:
META-INF/maven/org.codehaus.janino/commons-compiler/pom.xml
SHA-256-Digest: 6ytRku4iUhF5relVo1mE29vgINaAYoiYszBtTdtYYt4=

Name: org/codehaus/commons/compiler/java9/java/lang/module/ModuleReferen
ce.class
SHA-256-Digest: HXbYQ2CarCiX0D6pyvM/HVPxmafZBvQIrjOcTU/6YkA=

Name: org/codehaus/commons/compiler/util/iterator/ReverseListIterator.cl
ass
SHA-256-Digest: Fx+FnOg8G9m+8sftGoAu8YOpDvIuGmAJU55VJjFiab0=

Name: org/codehaus/commons/compiler/util/package-info.class
SHA-256-Digest: C9vc+36HM1x0VojExw9PxcqqrZrGXhBb9zvaNx/tqRM=

Name: org/codehaus/commons/nullanalysis/Nullable.class
SHA-256-Digest: Mqsw7uauFjZwHuVvN/3oU6fA3JxM+ZymUsp1MUCV8c0=

Name: org/codehaus/commons/compiler/AbstractCompiler$1.class
SHA-256-Digest: OsExRpzNvgtq58frHRk7aCGjROnX2DUZf4HeJ0/xu7c=

Name: org/codehaus/commons/compiler/samples/ExpressionDemo.class
SHA-256-Digest: mP1rzusynCzmHGYn7112pk4GBd23kLmFGMeSJJ74LYc=

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1.107 xsdlib 2022.7

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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/ParserForXMLSchema.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/ParseException.java
*
 /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/Token.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/BMPattern.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/regexp/Op.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/ErrorDatatypeLibrary.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/XmlNames.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/DoubleType.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/Comparator.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/datetime/PreciseCalendarParser.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/EnumerationFacet.java
* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/BinaryValueType.java
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* /xsdlib-2022-7-sources-1-jar/com/sun/msv/datatype/xsd/BinaryBaseType.java
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1.108 commons-codec 1.17.1

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1.109 jacoco-report 0.8.11

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
Build-Jdk-Spec: 17
Automatic-Module-Name: org.jacoco.report
Bnd-LastModified: 1697316822529
Build-Jdk: 17.0.8.1
Built-By: root
Bundle-Description: JaCoCo Report
Bundle-License: https://www.eclipse.org/legal/epl-2.0/
Bundle-ManifestVersion: 2
Bundle-Name: JaCoCo Report
Bundle-RequiredExecutionEnvironment: J2SE-1.5
Bundle-SymbolicName: org.jacoco.report
Bundle-Vendor: Mountainminds GmbH & Co. KG
Bundle-Version: 0.8.11.202310140853
Eclipse-SourceReferences: scm:git:git://github.com/jacoco/jacoco.git;pat
h="org.jacoco.report";commitId=f33756c37f1e41041d84018047b14cb394742761
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9.7)"
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.5))"
Tool: Bnd-3.5.0.201709291849

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* /org-jacoco-report-0-8-11-2-jar/org/jacoco/report/internal/html/resources/prettify.js

1.110 jandex 3.2.0

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zlib.h -- interface of the 'zlib' general purpose compression library
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Multi-producer/multi-consumer bounded queue.

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/**
* SPHINCS-256 signer.
* <p>
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used

* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
*
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
*
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
*
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled C implementation
* by Andrew M (@floodyberry).
* @see Poly1305KeyGenerator
*/

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/**
* An implementation of RFC 7253 on The OCB
* Authenticated-Encryption Algorithm. For those still concerned about the original patents
* around this, please see:
*
* https://mailarchive.ietf.org/arch/msg/cfrg/qLTveWOdTJcLn4HP3ev-vrj05Vg/
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* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/modes/OCBBlockCipher.java
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/**
* Magic value for proprietary OpenSSH private key.
**/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
* License of reference implementation
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/math/ntru/package-info.java
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/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
*
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
*
*
* NIST submission files
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```
*
* @see <a href="https://csrc.nist.gov/Projects/post-quantum-cryptography/round-3-submissions">NIST round 3
PQC submissions page</a>
* @see <a href="https://ntru.org/">NTRU website</a>
* @see <a href="https://ntru.org/f/ntru-20190330.pdf">NTRU specification</a>
*/
```

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
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```
// now keep space is free to use
```

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/legacy/crypto/gmss/GMSSPrivateKeyParameters.java

1.113 bcpkix-fips 2.0.7

1.113.1 Available under license :

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```
/**
   * Base constructor.
   * <p>
   * The authorizer attempts to perform matching (including the use of the wildcard) in accordance with RFC 6125.
   * </p>
   * <p>
   * Known suffixes is a list of public domain suffixes that can't be used as wild cards for
   * example *.com, or c*c.com, as a dns wildcard could match every/most .com domains if a registrar were issue it.
   * If *.com is in the known suffixes list will not be allowed to match.
   * </p>
   *
   * @param knownSuffixes a set of suffixes that cannot be wild-carded, e.g. { ".com", ".net", ".org" }
   */
```

Found in path(s):
* /bcpkix-fips-2-0-7-sources-jar/org/bouncycastle/est/jcajce/JsseDefaultHostnameAuthorizer.java

1.114 grpc-core 1.62.2

1.114.1 Available under license :

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1.115 grpc-api 1.62.2

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1.116 grpc-netty-shaded 1.62.2

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1.142 ip-address 5.5.1

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Found in path(s):
* /ipaddress-5-5-1-jar/inet/ipaddr/IPAddressResources.properties

1.143 jspecify 1.0.0

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Manifest-Version: 1.0
Bundle-Description: An artifact of well-specified annotations to power
static analysis checks and JVM language interop.
Bundle-DocURL: https://jspecify.dev/docs/start-here
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-ManifestVersion: 2
Bundle-Name: JSpecify annotations

Bundle-SymbolicName: org.jspecify.jspecify
Bundle-Vendor: The JSpecify Authors
Bundle-Version: 1.0.0
Export-Package: org.jspecify.annotations;version="1.0.0"
Implementation-Version: 1.0.0
Import-Package: java.lang,java.lang.annotation
Multi-Release: true
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.8))"

Found in path(s):
* /jspecify-1-0-0-jar/META-INF/MANIFEST.MF

1.144 third-party-jackson-core 2.27.21

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1.145 aws-json-protocol 2.27.21

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1.149 hdrhistogram 2.2.2

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1.150 janino 3.1.12

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Built-By: unkrig.arno
Build-Jdk: 11.0.11
Automatic-Module-Name: org.codehaus.janino
Bnd-LastModified: 1707216473825
Bundle-Description: Janino is a super-small, super-fast Java compiler.
Bundle-License: https://spdx.org/licenses/BSD-3-Clause.html
Bundle-ManifestVersion: 2
Bundle-Name: janino
Bundle-SymbolicName: org.codehaus.janino.janino;singleton:=true
Bundle-Version: 3.1.12
Export-Package: org.codehaus.janino;uses:="org.apache.tools.ant.taskdefs
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Import-Package: org.apache.tools.ant.taskdefs;resolution:=optional,org.a
pache.tools.ant.taskdefs.compilers;resolution:=optional,org.apache.tool
s.ant.types;resolution:=optional,org.codehaus.commons.compiler;version=
"[3.1,4)",org.codehaus.commons.compiler.io;version="[3.1,4)",org.codeha
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Provide-Capability: osgi.serviceloader;osgi.serviceloader="org.codehaus.
commons.compiler.ICompilerFactory"
Require-Bundle: org.codehaus.janino.commons-compiler
Require-Capability: osgi.extender;filter:="(&(osgi.extender=osgi.service
loader.registrar)(version>=1.0)(!(version>=2.0)))",osgi.ee;filter:="(&(
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Tool: Bnd-2.4.1.201501161923

Name: org/codehaus/janino/ReflectionIClass$ReflectionIField.class
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Name: org/codehaus/janino/IClass$1.class
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Name: org/codehaus/janino/CodeContext$LocalScope.class
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Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$5.class
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Name: org/codehaus/janino/Unparser.class
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SHA-256-Digest: u7ORGtVsRXxlXHwmqRHoPsP4uWY7KsOYPsaEKmMtKas=

Name: org/codehaus/janino/IClass.class
SHA-256-Digest: Ipe1yE2vUmzRWlOakZKdxkXALyD/0ZvFye1hqJBB+9c=

Name: org/codehaus/janino/Parser$MethodDeclarationContext.class
SHA-256-Digest:
jatsmjHogAFaMNJS9J7ZqxsvHzoTirTZmruC8KFR/Bo=

Name: org/codehaus/janino/UnitCompiler$24.class
SHA-256-Digest: QtLTUndql0qNUJvpdu/Dhyk6tlP5KBEAyafpk7vnEeU=

Name: org/codehaus/janino/ReflectionIClass$ReflectionIMethod.class
SHA-256-Digest: 4SAYm1AlZkgEm9vGaLTPa82AGS8V4i3Ns5j1svVz3GY=

Name: org/codehaus/janino/util/ClassFile$LineNumberTableAttribute$Entry.
class
SHA-256-Digest: zE252RDPnkXCOWXDahKnwncJwSstG4TTPy56uZodC4w=

Name: org/codehaus/janino/UnitCompiler$17$1.class
SHA-256-Digest: dMSrHkax0/ZH6Dwki1ZeJKo/9EMliI82iOSjVJmgAqQ=

Name: org/codehaus/janino/UnitCompiler$3.class
SHA-256-Digest: tD7bISdKwW6YwgNzB+017UlbSCfkkFagW14/k8hv7C0=

Name: org/codehaus/janino/util/signature/SignatureParser$MethodTypeSigna
ture.class
SHA-256-Digest: X82bqlAdAy85rnn6hgCMusghZjwsq60EWGgjCU6acSM=

Name: org/codehaus/janino/Java$InnerClassDeclaration.class
SHA-256-Digest: FVTOaaezwUOtLQUxtgM11kbGm2s+Z4qaHBQyO4GvpIg=

Name: org/codehaus/janino/Java$EnclosingScopeOfTypeDeclaration.class
SHA-256-Digest:
WseRyhHzYF7l+Pdjop0SKTog1/yDPs5vRUB9fFcL2Kw=

Name: org/codehaus/janino/Java$TypeDeclaration.class
SHA-256-Digest: Zl97vHNNvjU/q1SNXbKHNCwF9wTGGTFXEoi2e6oT5iM=

Name: org/codehaus/janino/util/ClassFile$ConstantMethodrefInfo.class

SHA-256-Digest: 7c9lv3W7a/Tj8Ie0LLj6mg1lR3gtWLua6JfxaomKGyg=

Name: org/codehaus/janino/Java$CompilationUnit.class
SHA-256-Digest: mcnJcDY/wp/o/C85yNE/IgDJyBbHbkZ8cpKdIWQwA3Y=

Name: org/codehaus/janino/Java$BreakStatement.class
SHA-256-Digest: fKzQ4jXbhkbm8PrnRqViPMS6Jio/94Ol4P29sCqa5Nw=

Name: org/codehaus/janino/UnitCompiler$18.class
SHA-256-Digest: ssLxJu/Hp+M+MX++D5fpR7r9JNXBogw9RpFdX0vr7JQ=

Name: org/codehaus/janino/util/signature/SignatureParser$2.class
SHA-256-Digest: FKQgvM414PtH0oTR5e4xnrHEua1BHaxWAnRBWPUgSMY=

Name: org/codehaus/janino/Java$Package.class
SHA-256-Digest: JXAUhRTjaLxmNfJgfEvr1kBmnAZ7XYKZtwAKlHaR5GA=

Name: org/codehaus/janino/UnitCompiler$9.class
SHA-256-Digest: ze/mjGrkvWzPKPlycY00ppomGyESK8Z+GhVrmMHfv4I=

Name:
org/codehaus/janino/Java$AmbiguousName.class
SHA-256-Digest: 28PqHza6oNF1xthIWzDyC9fdCLhYZCtxiJuNZRxW0yM=

Name: org/codehaus/janino/UnicodeUnescapeException.class
SHA-256-Digest: IYsRGOywvJjhU34iHRNUkYTgTzVCkUPksckasCrdxZ8=

Name: org/codehaus/janino/Java$ElementValueArrayInitializer.class
SHA-256-Digest: qqvB7OvEpSwrxzIDqWmI5qyQUHgE+JckdsMRFWAlxTg=

Name: org/codehaus/janino/Java$PrimitiveType.class
SHA-256-Digest: CkjnsRVzyJ/bjDqpeSWJXO0sjpJbP/355Uih8wZfctc=

Name: org/codehaus/janino/UnitCompiler$ClassFileConsumer.class
SHA-256-Digest: HLbGPuZnn0GChNtw4+bMUa2qacpwf14tDDpZRaoWt/s=

Name: org/codehaus/janino/Java$NewInitializedArray.class
SHA-256-Digest: I1zlDe5ihUB9ZmHbHW+BBPCwvNcwMTHSfyhG9miEZqU=

Name: org/codehaus/janino/util/AbstractTraverser$7.class
SHA-256-Digest: QRYOPswL2iHtPr2Gen4ttZfXrMJw+/lP4jRKlhRZ0p8=

Name: org/codehaus/janino/Java$NewArray.class
SHA-256-Digest: g77IxdS0j60Fm09gQCbajMISFnMVlbvqfOHibAdezPc=

Name: org/codehaus/janino/Java$ContinueStatement.class
SHA-256-Digest:

J9BeHEqSf1mV2UVZ0bQrh1jc/wE5QRvbimOvdQwqJXE=

Name: org/codehaus/janino/util/ClassFile$ConstantValueAttribute.class
SHA-256-Digest: 3L4wS943HC00rWPxr7obIFobWKSzB2HW1fCtYGfsQD8=

Name: org/codehaus/janino/util/ClassFile$ConstantDoubleInfo.class
SHA-256-Digest: bbDjvU/D7sgUwdW4xQZJpO8DjTAWlRAot54KR5b+06k=

Name: org/codehaus/janino/Java$TryStatement$LocalVariableDeclaratorResou
rce.class
SHA-256-Digest: BKdTldLr3/2uZBBAsK4xpqo7/X780NbaeFanbkzhQek=

Name: org/codehaus/janino/Java$BooleanLiteral.class
SHA-256-Digest: kHLtM1TowiHxWnx+q6VhBCFqOqYlXrKDzPi1afDZvuY=

Name: org/codehaus/janino/Java$Padder.class
SHA-256-Digest: kwA1tvhu+9aROmz/pQCup6bAt04pIY5vGPcZdcA8CFs=

Name: org/codehaus/janino/util/DeepCopier.class
SHA-256-Digest: mAMnfKUjkgKMahk8mD5scEKUIZl80RpUSoZn/Pm4qms=

Name: META-INF/maven/org.codehaus.janino/janino/pom.properties
SHA-256-Digest: 1f/vvjX3kw1gZHu5DXax4chk8a5XExxUIMACTCx9CQQ=

Name: org/codehaus/janino/Parser$1.class
SHA-256-Digest: yRWpLxE73dC1FdMAPzfjrMaEsS0ghP63LWxd1S9jrP0=

Name:
org/codehaus/janino/ExpressionEvaluator.class
SHA-256-Digest: q/kz2R21uZhS0Ntj7NNtjGfq3abh1Y6QqhOD25rfr4E=

Name: org/codehaus/janino/MethodDescriptor.class
SHA-256-Digest: 0pOqbxkxlOeCZNbTSGeQjmqlZOdqso4+DmV4cz2h8B8=

Name: org/codehaus/janino/Java$Assignment.class
SHA-256-Digest: zM3r+DWFvItUaQurvtqqUfWT919aTBhCetiaLBlICvs=

Name: META-INF/services/org.codehaus.commons.compiler.ICompilerFactory
SHA-256-Digest: /B4rVKhH4KDlEeVF4EOJ/rxo1+SlSuBPFW88hClhQfE=

Name: org/codehaus/janino/Visitor$AnnotationVisitor.class
SHA-256-Digest: yuQZ8OVcDmkGzRItn5qLzu6qucnNgY/BE2hCf8QTuNE=

Name: org/codehaus/janino/tools/HprofScrubber$1.class
SHA-256-Digest: jSL/m65D+KTCfOUy3eg0PWy/Fhud01+r14h+acTuqww=

Name: org/codehaus/janino/IParameterizedType.class
SHA-256-Digest: qRPl9Fkx87UZTDa68W6Ur40EmKxGBOGCrWiLZgMKAp8=

Name: org/codehaus/janino/Visitor$RvalueVisitor.class
SHA-256-Digest: SmSjKU6ohfgTRoGRo+OJRoa/el1nxnkjZ9Br3Q3kKP0=

Name: org/codehaus/janino/Visitor$ModuleDirectiveVisitor.class
SHA-256-Digest:
AIwWoeesjhvPStASQrIbl+kM6IxBkBa3WQw4Fw23yzE=

Name: org/codehaus/janino/UnitCompiler$8.class
SHA-256-Digest: X4I6pSOoh4c/i7GLyyfLH0OFSoikj/XI1CZu2EAE99s=

Name: org/codehaus/janino/AntCompilerAdapter.class
SHA-256-Digest: RBkMlMcamLRfOv/ZcKhTeqZ/Vd9IWL8f/TOpOzxhrdc=

Name: org/codehaus/janino/Java$Located$1.class
SHA-256-Digest: EXNQcDuQH8/UOCgIt8VEzIv69NURxgKMAWB+FbZ4cBo=

Name: org/codehaus/janino/util/signature/SignatureParser$TypeVariableSig
nature.class
SHA-256-Digest: pVV+X1Upk45h7TtEqRu01TZ1DJ+kZPddSyO3XmvJcOw=

Name: org/codehaus/janino/util/AbstractTraverser$11.class
SHA-256-Digest: BDu7QAi18ura8SV9XrrETLmRNGlgv3YZPtSj1p9ykqI=

Name: org/codehaus/janino/Visitor$TryStatementResourceVisitor.class
SHA-256-Digest: cytJ3JY7B9ITcyP09RQVb6QCkjBXtrNwJ3lfnzYxBck=

Name: org/codehaus/janino/Java$MemberTypeDeclaration.class
SHA-256-Digest: qyeAoING7Ced411A0kBkJPvgHeIrr+UoXy9ALvoummI=

Name: org/codehaus/janino/Java$SuperConstructorInvocation.class
SHA-256-Digest:
X4J85R2C9BQNJvETgXmTsEkqIRtGhPYJk1F/e8H+68o=

Name: org/codehaus/janino/TokenStreamImpl$1.class
SHA-256-Digest: djsCCZ2vVVnK9hOX1HORlsIfZPZLo2S9yfPZMih/hu0=

Name: org/codehaus/janino/Visitor$LambdaBodyVisitor.class
SHA-256-Digest: 3GJrAENIO4AtHFgkkpPtcJTjrB3vIfIGbZAhUQ6qXUw=

Name: org/codehaus/janino/ClassFileIClass$5.class
SHA-256-Digest: CnOHbtejDz92LXuia61nFvMSIUt8nJUQaEAy0J6zS8c=

Name: org/codehaus/janino/UnitCompiler$20.class
SHA-256-Digest: WZe6MxbGOftbsgfQLzXNWQ/9VH5XIWkErpdLO2qB4as=

Name: org/codehaus/janino/util/DeepCopier$16.class
SHA-256-Digest: yqGfk0iW/yj2RLpHY1YCJjRZ0Pbc/h+5ILuEamt4i/U=

Name: org/codehaus/janino/tools/HprofScrubber.class
SHA-256-Digest: c7Z5Dt7ifYly93+SM6wtUa/fePXN0i8Vs3Pq4EIAdZc=

Name: org/codehaus/janino/util/AbstractTraverser$5$1.class
SHA-256-Digest: 1TfCvEVn5v55U8l6SyABNgunWNYW/odXvlJd1L+iw/k=

Name: org/codehaus/janino/util/signature/SignatureParser$Options.class
SHA-256-Digest: OywgLaKbqylXXp6d70vEubD039ylWfdFB8OtPGZazWQ=

Name:
org/codehaus/janino/util/ClassFile$AnnotationDefaultAttribute.clas
s
SHA-256-Digest: 3jwfLTDSZH7YjPYciOUjPTGxdXan1uuEqcQdbUdB3CY=

Name: org/codehaus/janino/Java$BlockStatement.class
SHA-256-Digest: Og+d3CpAy8MfHNZj/O3sPpHa9yKEEK+dMLy0Ll8ConU=

Name: org/codehaus/janino/UnitCompiler$2.class
SHA-256-Digest: A8kWi4wcw0NTAOudJoOHFI13Z9CQctt+NqgnX7gDHFk=

Name: org/codehaus/janino/util/DeepCopier$15.class
SHA-256-Digest: 5xbQ2bEO4SrE9oBe1OzCY3uaz1Fmlkn+/MEE/tQgbK0=

Name: org/codehaus/janino/ClassFileIClass$4.class
SHA-256-Digest: dy7cw2i8Xz5I9AZohnhSKppWb0y3Rg1R23ymqGAP+rQ=

Name: org/codehaus/janino/util/AbstractTraverser$6.class
SHA-256-Digest: l3xCZUyf8NxMuTf+RMgQ8y9u1/1Y4MEkrMVvcMFymcs=

Name: org/codehaus/janino/Java$Instanceof.class
SHA-256-Digest: U4cy9mLeDgFFkdp3qRrVFGXPcNaJiRxUFYbMNMTSKRE=

Name: org/codehaus/janino/Java$TypeBodyDeclaration.class
SHA-256-Digest: +hwzxPKvbyj/t74MC8dvnUHco869VV84a5zbdqQabak=

Name: org/codehaus/janino/IClass$IMember.class
SHA-256-Digest:
ZE/7CB/CHeeuWYy6soOFmCsOljmbXohSqtbjWLo4OjM=

Name: org/codehaus/janino/util/ClassFile$StringElementValue.class
SHA-256-Digest: bbx/xuP3wBkURBrFJ0CY3rOMarHJ2XQ7s5hBicu2x0k=

Name: org/codehaus/janino/Java$RvalueMemberType.class
SHA-256-Digest: BctTTuI+L9LxWUpqSDv2mOPhk0LyYnk2y5gPDb+f69k=

Name: org/codehaus/janino/ResourceFinderIClassLoader.class
SHA-256-Digest: zPF7fDajwuREoLU4a9oKYssxneIPpVdLlY1iBCItwcQ=

Name: org/codehaus/janino/Java$Annotatable.class
SHA-256-Digest: YehuCqSnwPGJQpQfTZmLDI/cZNoolCQ8D8co2FmhgFk=

Name: org/codehaus/janino/CodeContext$Offset.class
SHA-256-Digest: Mhhd8EBLDcH/Ab0VWbuZm+LOSN+0J3eTOFNRwbveUrk=

Name: org/codehaus/janino/Visitor$AtomVisitor.class
SHA-256-Digest: p3DrZWVylI8a+a89owX1CF5nuxJfg+0wWU3LOknCu1c=

Name: org/codehaus/janino/Java$FieldAccessExpression.class
SHA-256-Digest: 7y2b+c1RYFucI2CqlS1BXY2YaxU/TA7bJMiZQ/9sPa8=

Name: org/codehaus/janino/util/package-info.class
SHA-256-Digest: i8U8rLZp0cIsLgLgheAxKXmR0xjEybbeOjFrFPXt6R8=

Name: org/codehaus/janino/Java$PackageMemberAnnotationTypeDeclaration.cl
ass
SHA-256-Digest: V2MkOv/iWNyghk7631czQA0gsmcxe7t+eugttcRBRn8=

Name: org/codehaus/janino/Java$Modifier.class
SHA-256-Digest: 5IIp03WsZ8jDFQuZnL8Y4YGkzZhv/wNQhfz0R5KIse4=

Name: org/codehaus/janino/util/signature/SignatureParser$SimpleClassType
Signature.class
SHA-256-Digest: PntGWzzz1Qw7Ca2W/UNwil0+346OHR2+GsOHPXfHc0I=

Name: org/codehaus/janino/Java$ConstructorDeclarator.class
SHA-256-Digest: pKQ/Kg4eO68A628qmHlW61BRBHX2MDvLyJComOQQgVI=

Name: org/codehaus/janino/UnitCompiler$31$2.class
SHA-256-Digest: lpPrBUWqPK5DaRqRszviESeSw+sZkq3eZg2hjSb4Olg=

Name: org/codehaus/janino/util/signature/SignatureParser$ClassTypeSignat
ure.class
SHA-256-Digest: eFiM5TtbHBLoIpn83w8mlaKeA0D1QppMtOF4HD51nlU=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute.class
SHA-256-Digest: 0Q3CwJO+iITgTB77SecsazpjxEyVu0G95ys0zHfqN5s=

Name: org/codehaus/janino/util/ClassFile$InnerClassesAttribute$Entry.cla
ss
SHA-256-Digest: skO2e5pM5fGeuT5lSXCEGNS6/Wggd6eKmKPJvYEkbko=

Name:
org/codehaus/janino/StackMap.class
SHA-256-Digest: /9Rko6qntikUXqlViNQ+GwFR1iT8qQHq0lEHmsWnNKo=

Name: org/codehaus/janino/CodeContext$Relocatable.class
SHA-256-Digest: wS9FyX0bHSjuCkl+8pY+PZYEW2MN+rA3u+sM+Tj22MU=

Name: org/codehaus/janino/Java$ArrayType.class
SHA-256-Digest: CL/djwEABd11+3QJs6b+5j8QAJkXSUDAEpGmY83nsg0=

Name: org/codehaus/janino/UnitCompiler$7.class
SHA-256-Digest: qbOpDOC7pSjyQrQ/b1L06CufRGlDRBTFN4ioLTN6S5M=

Name: org/codehaus/janino/JavaSourceClassLoader.class
SHA-256-Digest: EVvw3EEeS09c2QsanlwiEYTtEwMiSl35Ytr6n2J0Qws=

Name: org/codehaus/janino/util/signature/SignatureParser$1.class
SHA-256-Digest: jxg4kgKDg9wTUjjWydtZd+7OCUbscye0chje3jqqmDE=

Name: org/codehaus/janino/CodeContext$Inserter.class
SHA-256-Digest: 2CcCDDaMpMW5/vZG67+GdSwqxFWT19upMPgYWCX5foU=

Name: org/codehaus/janino/util/charstream/StringCharStream.class
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Name: org/codehaus/janino/UnitCompiler$11.class
SHA-256-Digest:
rRWaqOyfNxO05/cp6ETDEK30VujVxOWdQmzgCS6WZkI=

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Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameFram
e.class
SHA-256-Digest: OREViZG0UIDfA5IWoTeDXaXdJPR1p/Mjq9XVVS41ij8=

Name: org/codehaus/janino/util/DeepCopier$17.class
SHA-256-Digest: SImslHJg4DwQgozaSScFdLt9qQfGgmmCsTm97smY0GA=

Name: org/codehaus/janino/UnitCompiler$14.class
SHA-256-Digest: Zbf8PHF7My+lPnCjGcziosPO4IGrFlNoTv0kE+QG2XA=

Name: org/codehaus/janino/ClassFileIClass$6.class
SHA-256-Digest: b/hBweARduDw44CSi7Ae+9AQDjTvdAvwHDGNyz7sdl4=

Name: org/codehaus/janino/IType.class
SHA-256-Digest: z2yCXH9AYUyUx2aIqHI+P8At67652dwgSxQok7HgldU=

Name: org/codehaus/janino/util/ClassFile$LocalVariableTableAttribute$Ent
ry.class
SHA-256-Digest: ZzMeDXw0btMybO0BZuzGCyBj7cYbblmr+bS/xmV3fdw=

Name: org/codehaus/janino/util/ClassFile$SyntheticAttribute.class
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org/codehaus/janino/util/ClassFile$ConstantUtf8Info.class
SHA-256-Digest: VYkRnqLYzgSJ+ZR7zqC4V/PQDDbWTyZhPggcSrl5mXw=

Name: org/codehaus/janino/IClass$IConstructor.class
SHA-256-Digest: S19H03w90f2TRYeKcAcgxkLPBYRKQWCMAeTC4B6j+FQ=

Name: org/codehaus/janino/Java$SimpleType.class
SHA-256-Digest: +ErmqJjfqf24JHQvN9tYCmlPoNWTIuaL0KgDpbB/wxA=

Name: org/codehaus/janino/Java$ThisReference.class
SHA-256-Digest: Hao5TYDjYzpgDwwlTkaS2j6E5i37+iPGb4MMx4uPt8U=

Name: org/codehaus/janino/util/AbstractTraverser$8.class
SHA-256-Digest: Z+pTg7fxJoTAVQitElT0FMNFFdKOurGlVaZhGgNFmMA=

Name: org/codehaus/janino/UnitCompiler$SimpleIField.class
SHA-256-Digest: MI4WAc+zS7wStMN6dazd7hKefVER2fu2isZF5zibYVo=

Name: org/codehaus/janino/Java$BinaryOperation.class
SHA-256-Digest: fMybLTTA6tts1POjYQ+2fLgJhOuctDmOoc8iAFzgMec=

Name: org/codehaus/janino/util/signature/SignatureParser$4.class
SHA-256-Digest: OYidRLdk9ysmY/RcldLeOqoRKXTAIvXczBMnYpjV+8Q=

Name: org/codehaus/janino/Visitor$ArrayInitializerOrRvalueVisitor.class
SHA-256-Digest:
OgAwiuCCjpzwSq4sPWNqUftz7ywKaRFBPELSkODgUQE=

Name: org/codehaus/janino/UnitCompiler$13.class
SHA-256-Digest: 5x2Uda+mK2pjDLQINizfoqCkrXD10TICqo9YfL/jdag=

Name: org/codehaus/janino/Java$FunctionDeclarator$FormalParameters.class
SHA-256-Digest: otynIT83XQsNo82WBixPhcrFlXQERWiUfFzogB8lOB8=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$ChopFram
e.class
SHA-256-Digest: /P6CPMKW/ZSh9GykNtV2So96gt2SwGWzLqPXAF4ANU4=

Name: org/codehaus/janino/UnitCompiler$4.class
SHA-256-Digest: JCc+Wr07CT+vSDrCxWw8Lf3BsQxVZCB5F/P+qi+u+Ng=

Name: org/codehaus/janino/util/ClassFile$ShortElementValue.class
SHA-256-Digest: nW07viyeAsnqxQsCJnzV1oIlWUkBI1aOxxXk+LQCqfc=

Name: org/codehaus/janino/ClassFileIClass$7.class
SHA-256-Digest: GzoKYxwKQbyV08SxuOd+vj1d/btMjLY9EGsSpNsLZVs=

Name: org/codehaus/janino/Java$Primitive.class
SHA-256-Digest: WP2rQUDskbJxV4s8l7LQj+riOrKgujMdPAR1Rxt7Ry8=

Name: org/codehaus/janino/util/AbstractTraverser$9.class
SHA-256-Digest:
rSSV6Iehvz/p4MKxUEOW3qmueIrSepEnJCcwrVffAUY=

Name: org/codehaus/janino/Java$ArrayInitializerOrRvalue.class
SHA-256-Digest: sqApJ4ZsroVyw46maD1zSM4l3vB8s0H6oS+zbVbatjQ=

Name: org/codehaus/janino/util/DeepCopier$18.class
SHA-256-Digest: rRt3/a1PyzI9Zyn92J8m7EKj3+JRlxMqkOvLBW5iSfQ=

Name: org/codehaus/janino/Visitor$BlockStatementVisitor.class
SHA-256-Digest: u8fO5w8CbOsTrDc7qHqZqh1IBwlXQnGF9EEFssW/Xlw=

Name: org/codehaus/janino/util/signature/SignatureParser$ClassSignature.
class
SHA-256-Digest: U4wQ3iVtPgJUwW7MGZQ0hlqeUdP/vnj7AGChzH/xeRg=

Name: org/codehaus/janino/Java$Lvalue.class
SHA-256-Digest: Aqe3FL6yEFHBMwVtaSS0x928K0j5EhTNrFkACmvFxf0=

Name: org/codehaus/janino/ClassFileIClass$2$1.class
SHA-256-Digest: byMyvsFqGUGL6vVgLJkgxEw6uxmRIsQFGQUJo89yIFU=

Name: org/codehaus/janino/util/signature/SignatureParser$SignatureExcept
ion.class
SHA-256-Digest: aespNa/+ApSMqvTkD1+UEtMsIEqDV99kzd1mXJZxZrI=

Name: org/codehaus/janino/Mod.class
SHA-256-Digest: CVMW4E342ufw+qFhNCN0JgbO+G9w68jkfmrgmCfdbCU=

Name:
org/codehaus/janino/util/signature/SignatureParser$3.class
SHA-256-Digest: oGJ5eKTHhvM4tJXYiO3z7nB+bVvFzSVA6a529NGENZo=

Name: org/codehaus/janino/CachingJavaSourceClassLoader.class
SHA-256-Digest: Z5poyEza/T+RZBwNix7K0dbZMxBLmpWlbfxoqBcDmLY=

Name: org/codehaus/janino/UnitCompiler$12.class
SHA-256-Digest: FXymxxAmK54DIsbxjFyhfBIbo4C9vCZTvLeSyuFfD58=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$StackMap
FrameVisitor.class

SHA-256-Digest: avBZARS20hxUjeQEEpPEsgBTYb417JVA06jBY1hwU0o=

Name: org/codehaus/janino/UnitCompiler$5.class
SHA-256-Digest: AoOokY80GWwFKObmdHKGHIGItg+7xQ+CJvTGK84ljvM=

Name: org/codehaus/janino/Java$TryStatement.class
SHA-256-Digest: H4xXKvT/BW9FgDlGoT6iayEtmP4GyCj8pNRwDVGOJ4s=

Name: org/codehaus/janino/TokenType.class
SHA-256-Digest: koUfzJ/KGTtVaNsIDRNBZ7phiTGxU+is5VAPlxdj2Y0=

Name: org/codehaus/janino/Java$ArrayCreationReference.class
SHA-256-Digest: ombbXelcJLXhfihIqO4RoaJjZaPWSurnHX3hCCOWdjo=

Name:
org/codehaus/janino/Java$AbstractCompilationUnit$StaticImportOnDem
andDeclaration.class
SHA-256-Digest: E8CWrrfSAxHErnL3/HU69HyFFC9VO+bz3o47vTxHNvU=

Name: org/codehaus/janino/util/ClassFile$ElementValue.class
SHA-256-Digest: hWUawFQtL7UshZ1IzMc+xyfAo5bvVhLEwfqEHbuhIXM=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameLoca
ls1StackItemFrameExtended.class
SHA-256-Digest: Fq2ysQrVT955SFF1sojnkRiGaBOVZHJw06JenTrgi+4=

Name: org/codehaus/janino/Java$NamedClassDeclaration.class
SHA-256-Digest: RlEwF6xFuR/Q/NHW/ochp/u0R+EQNtVgHulyrSvro58=

Name: org/codehaus/janino/tools/package-info.class
SHA-256-Digest: Bl+oo8UDT4xO51eDDDtGIvTcceW5FV9dmlQdMcsLtBY=

Name: org/codehaus/janino/Visitor$LambdaParametersVisitor.class
SHA-256-Digest: nSC0HABE6HiyfXOLnCLlK/F73XaUw/YRegyDgPgwWSQ=

Name: org/codehaus/janino/util/signature/SignatureParser$FieldTypeSignat
ureVisitor.class
SHA-256-Digest: 80dkTysNUjxBUM6q1rXrEmjquVbY9uSevn/mH2eHP5M=

Name: org/codehaus/janino/UnitCompiler$15.class
SHA-256-Digest:
CTtYwyolDv1q4h0fskWW2YbLjMPpTyiBqD0pg3EyjwA=

Name: org/codehaus/janino/Unparser$6.class
SHA-256-Digest: M78qiEZ8VDCRkXmqtDRA4Fhk1sNujycCqsHSNVyv/TU=

Name: org/codehaus/janino/UnitCompiler$6.class
SHA-256-Digest: PzDjWfWQrs7U4k3SrcqW8QpaPQWR9qtKwQj13Y1O6QY=

Name: org/codehaus/janino/Java$IdentifierLambdaParameters.class
SHA-256-Digest: Jvow7aF6SYx6ja6m6n05yttYsBqSOsaM8mKq5Q61q5M=

Name: org/codehaus/janino/Java$Literal.class
SHA-256-Digest: 2c6a8YyRt4FrvWoM1QiHKeThfg0qPxTUutLTwTpDl3E=

Name: org/codehaus/janino/util/ClassFile$DeprecatedAttribute.class
SHA-256-Digest: hOZxwKcn6FD5w1e3ULTuLal/Yeh/zgYtcJiL5VCvzV0=

Name: org/codehaus/janino/tools/HprofScrubber$Site.class
SHA-256-Digest: UONQtNrblYzUHJy2u5POVdoDgqBmPJZ8BJTv+4DznXE=

Name: org/codehaus/janino/Java$MemberEnumDeclaration.class
SHA-256-Digest: FH+WzkJNRs4LucPx6iJTfb1qm16WZazt2XW+izVZAHc=

Name: org/codehaus/janino/Java$EnumDeclaration.class
SHA-256-Digest: NKdSiLL8TF5brnrhh9JS+lCSb8H9gKKP3wVbtQ9O0hI=

Name:
org/codehaus/janino/UnitCompiler$28.class
SHA-256-Digest: 252L41TK6iIEnUi2kk9nfsVMrwWaj8CwNNQRE6r8rbU=

Name: org/codehaus/janino/util/signature/SignatureParser$PrimitiveTypeSi
gnature.class
SHA-256-Digest: XxDCzKCc1epSB9i1eg5t3wJPjFXfaND80bTmQlOx4lM=

Name: org/codehaus/janino/Java$Rvalue$2.class
SHA-256-Digest: 3rdr1GJDLwq28aDbVwyTpc5Ot1WodWgXUWzPplQ5OvM=

Name: org/codehaus/janino/util/ClassFile$FieldInfo.class
SHA-256-Digest: VKGgA/PeFVQ07d+L3V4bIUTjhFaIQ7oMsig+Nr9ArJo=

Name: org/codehaus/janino/util/DeepCopier$13.class
SHA-256-Digest: FJ1Rfwjv69hl3k/bOGxX0l4cy4CNnQBCJGDbYIfjBMw=

Name: org/codehaus/janino/util/ClassFile$ConstantPoolInfo.class
SHA-256-Digest: 8GPeW/b/D3IFyYYgL91Zb+pGnOhUdMog8RfM4Vl9axg=

Name: org/codehaus/janino/UnitCompiler$42.class
SHA-256-Digest: 1Q6y858xJrVl2sFCnO+iRn81um1aZCQSahlSGs09fNQ=

Name: org/codehaus/janino/Java$ThrowStatement.class
SHA-256-Digest: oq3UeX09QxCE23POGpBbHI5GPu5tmODo/B2hX8Dj9nQ=

Name: org/codehaus/janino/util/ClassFile$AttributeInfo.class
SHA-256-Digest:

mlHN0E0qyJEivsA/Uz9BtGyvS96tjbYl7cQs8/worHw=

Name: org/codehaus/janino/Java$ConstructorInvocation.class
SHA-256-Digest: T35TXt5rJYg+VcS/CTIR0hFqypI9hzkrr2sVHZxbo38=

Name: org/codehaus/janino/ScriptEvaluator$Script.class
SHA-256-Digest: WyzQGWfT3twvSfQK7OQ4QIRR2Jbgrra9cWTI83+NzTg=

Name: META-INF/maven/org.codehaus.janino/janino/pom.xml
SHA-256-Digest: exDpA00jkVcvSFkN7L5ncZ/a7kPpjgCu/zHIAR+3mYI=

Name: org/codehaus/janino/util/DeepCopier$2.class
SHA-256-Digest: 66mq0JQ4XuvWdviPPaBk+CJEPXVm3Sns7YWsW2+5DGc=

Name: org/codehaus/janino/Java$AbstractCompilationUnit$TypeImportOnDeman
dDeclaration.class
SHA-256-Digest: HjVPkpb2hdROgH2GqL7F/0/GZD7jkkypFReC6jzhzyg=

Name: org/codehaus/janino/Visitor$TypeVisitor.class
SHA-256-Digest: 4fYFKFcWsp9Qcr3Au3qMZacwoZblRdGyiUnRiuG4F0s=

Name: org/codehaus/janino/util/AbstractTraverser$4$1.class
SHA-256-Digest: EUiDc+FWacSj9cg5rtUWQzAnuvW1CPJozb/PvG9i7uQ=

Name: org/codehaus/janino/IClass$IField.class
SHA-256-Digest: gt0bZcPElihqMk2moUZbUzcAiqcpo76Io6x+gUBPBsQ=

Name:
org/codehaus/janino/Java$FieldDeclaration.class
SHA-256-Digest: 3/VHiiel8HlJapUKeuTOC2UOz0cmy1W7NflMzSM1X1s=

Name: org/codehaus/janino/SimpleCompiler$3.class
SHA-256-Digest: Ck8RRR6R+MmnZKWO1LN1PCMovLSDAYIMO+UDZILC4Wg=

Name: org/codehaus/janino/UnitCompiler$1.class
SHA-256-Digest: 9yLg8S06x/H16NJ688QhPvX+JVtkuHKRRL3O8wqLY9c=

Name: org/codehaus/janino/Java$LocalVariableAccess.class
SHA-256-Digest: iR9JnVky8i76MpkR7o8DVbfjUeWrs1lunA6R5jAKTSQ=

Name: org/codehaus/janino/Java$FloatingPointLiteral.class
SHA-256-Digest: z1204VBa0lxt5itrRWSHLqTFgpsAwhskMLyyDuGXkFM=

Name: org/codehaus/janino/util/charstream/CharStream.class
SHA-256-Digest: DQwBuVr34NT9jVRJzRfS+mDhfQtkL3nXwHTEDBpZ4mc=

Name: org/codehaus/janino/Java$MarkerAnnotation.class
SHA-256-Digest: Yqz6mniTZkDZ9DOJNTyfEfsvYTnqltUPtn+XBB8Dmhk=

Name: org/codehaus/janino/Java$Wildcard.class
SHA-256-Digest: MES68QyB++wEuWOh4P5rMVYITz46hH2/3ScYfZK7DY8=

Name: org/codehaus/janino/Scanner.class
SHA-256-Digest:
d4JdILsh2A8K5TDQ1g+AVPSI72R7j0uBC5WgzVhasfo=

Name: org/codehaus/janino/Java$FunctionDeclarator$FormalParameter.class
SHA-256-Digest: duJrpX6C4cgtsBRZDCgSXKBcBkuSE0Uo1BYmrMQHfIw=

Name: org/codehaus/janino/Unparser$16.class
SHA-256-Digest: w8zWln3qSeLP4wHdRAmb5Jdw1AzgRVF9+3TE/v76OEA=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$ObjectVa
riableInfo.class
SHA-256-Digest: VZFUDC6ZqoShjZPttIymQ3NrY2rt/RkNy6y0qm9g9Pk=

Name: org/codehaus/janino/util/ClassFile.class
SHA-256-Digest: xeE5Pp9J9Lkfv5hk5SBfd9xaS8GfokyaCiQ80J6N1cs=

Name: org/codehaus/janino/UnitCompiler$10.class
SHA-256-Digest: DirX7/whQjEWeRVAE9vvAwUEZ9OwXx23zsooLb3j1Yg=

Name: org/codehaus/janino/util/AbstractTraverser$5.class
SHA-256-Digest: 13l0KNcRixOxLiBqMaLYiMjXVlCaAEcXQqS4lfI24nU=

Name: org/codehaus/janino/CompilerFactory$2.class
SHA-256-Digest: g2In4lGx8bQt+25TUlDWRc4FjHKSWdbg1eE20mUyHWQ=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$AppendFr
ame.class
SHA-256-Digest:
PL6IZdjjHLkBeFQaAUXh54PLQ0wOjbK6ZU5UP38F0vc=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$6.class
SHA-256-Digest: 63ZXhRiE6+N6zQvRdDNsrWYY6yhqbaQ1f3L+Ny7vQKo=

Name: org/codehaus/janino/Java$ClassInstanceCreationReference.class
SHA-256-Digest: X59Bfr4xMPBie0TIBNkl/bp9pe+maT9EcLPa/gsyJds=

Name: org/codehaus/janino/util/signature/SignatureParser$TypeArgument.cl
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SHA-256-Digest: nO5PQxLQy/4MM6R97Hb3+rFufcIX0f3dkmX5CWX6/Gg=

Name: org/codehaus/janino/util/ClassFile$ConstantFloatInfo.class
SHA-256-Digest: lY3u0ZX69UgbEFhWsT1b+rgy+I8+hJs0WXNm4GaO4+8=

Name: org/codehaus/janino/IClass$2.class
SHA-256-Digest: dBI8mDtV1RXUNdV03r1eNbjZr89eUPbuCxCXpz1paR0=

Name: org/codehaus/janino/Java$Annotation.class
SHA-256-Digest: OrRoYtOnSo8CtTBCH0JkGM4tVRuMrA4M4Y6WM8S1gzc=

Name: org/codehaus/janino/util/ClassFile$ConstantClassInfo.class
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Name: org/codehaus/janino/SimpleCompiler.class
SHA-256-Digest: zh0kmFWqOkOBo42Ufsn9sFXc1Ck10enhNP+Bu+EFIDE=

Name:
org/codehaus/janino/UnitCompiler$21.class
SHA-256-Digest: p6WtQFgrWpGOR0mlqKXmUV7G5KLgHwciW36MpZ0+MHA=

Name: org/codehaus/janino/Visitor$ConstructorInvocationVisitor.class
SHA-256-Digest: Z9HPO6UwRooj5cC1diKHsC0jq7mKXlGGSw7szOwhAMo=

Name: org/codehaus/janino/util/ClassFile$LongElementValue.class
SHA-256-Digest: Sfex8GDDYAukI8IbHxUAkUAIUPLpE1P/8O1KMh5JYF0=

Name: org/codehaus/janino/IWildcardType.class
SHA-256-Digest: cajE+0BYNkXuFc1yXnOlQQ4pSg7lfk8BSfySrAMdoUU=

Name: org/codehaus/janino/util/ClassFile$AnnotationsAttribute.class
SHA-256-Digest: V2sr07koVznIx5EfiRugKLp7Hr/M94MOlQCAnxYM5kQ=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameFram
eExtended.class
SHA-256-Digest: tPoGgGWo14PfIOj1In1D0XPABlZn1qpzEO/lxLL6gJY=

Name: org/codehaus/janino/Java$StringLiteral.class
SHA-256-Digest: mWdyrm1PqnG59Kuz0FasXnoe8BAp5mwpMP6RCW5T9DI=

Name: org/codehaus/janino/util/ClassFile$SignatureAttribute.class
SHA-256-Digest: uFaMVomGWHtsp0ig01tybyzJ6+01t746mCu4vdL6G8Q=

Name:
org/codehaus/janino/Java$SwitchStatement.class
SHA-256-Digest: wmrAadx6OwPOs22x+sQrQY7JN6ODbypHhYjS2jWsPO0=

Name: org/codehaus/janino/ClassFileIClass$3.class
SHA-256-Digest: BqANdg23JLyblme3Dr7bJ+IEWNlnC7t78gLzvCFN0FI=

Name: org/codehaus/janino/util/DeepCopier$9.class
SHA-256-Digest: VAOh0ov4Vlp2UjnZyFIThm72i/Mddbctc8lFRneeSDw=

Name: org/codehaus/janino/CompilerFactory.class
SHA-256-Digest: sBZIS02QjVsFbjJGJDEIMTZC9TQ9GJgOFd3LpqABTkk=

Name: org/codehaus/janino/Java$EmptyStatement.class
SHA-256-Digest: ELq5mo+drlpHQ/XFl9WfN/66klQ3WFtGLXNpB8O4dPo=

Name: org/codehaus/janino/util/AbstractTraverser$3.class
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Name: org/codehaus/janino/IClass$IAnnotation.class
SHA-256-Digest: tY2Gkie/CT/z8bGZ1mtnDXmyp8Z+W8yDsVh7FAJ+UXM=

Name: org/codehaus/janino/Visitor$ImportVisitor.class
SHA-256-Digest: NMnBMaEl65fU0f1ydHjM9R+HyaAHiraeqV0twsDd19U=

Name: org/codehaus/janino/CodeContext$BasicBlock.class
SHA-256-Digest:
va9sCuxMeZq14Aq3U1G/+4tX4IiWfnf2a1ua/ySfIpI=

Name: org/codehaus/janino/Java$MemberClassDeclaration.class
SHA-256-Digest: vI8aS/dQf4c3xDf52oq1ryipts8lfSW2RKJG7ofJMRo=

Name: org/codehaus/janino/Java$ConditionalExpression.class
SHA-256-Digest: yiEaqS+m1jMSUbC924vJ4TxnuRzCaKW4F0o0CyxgXwQ=

Name: org/codehaus/janino/Java$LambdaParameters.class
SHA-256-Digest: YYAw4Bp+by56XKQMJZb5N1Mz4jLx7jS3JlUeCPC9afA=

Name: org/codehaus/janino/util/ClassFile$IntElementValue.class
SHA-256-Digest: LseOOZJS4lR9u3C//+MJ34ATWJNvdI3x7Ph+GUzUgQE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$Uninitia
lizedVariableInfo.class
SHA-256-Digest: j4/LQrl6dp9sB/HEVIEfwDOgQ4lIuFrfW4hbEZb6lKU=

Name: org/codehaus/janino/util/DeepCopier$11.class
SHA-256-Digest: CZf447NXkhgZqAzpwgC9zUeHJSyUBqqWf1mvj8ZdwqU=

Name: org/codehaus/janino/util/ClassFile$ConstantElementValue.class
SHA-256-Digest: gWJ7du4PfAijCMFra/Eoln5rkFcHillwo3/6lCgc/oA=

Name: org/codehaus/janino/UnitCompiler$17$2.class
SHA-256-Digest:
EddX+ddWvE01SsmTAGzxbBi81basHoSibDw4apxLjCo=

Name: org/codehaus/janino/Visitor$TypeDeclarationVisitor.class
SHA-256-Digest: p262+tyWf6u/fl5+xzU4g2fkAgng6/I1edvqIbhbOOE=

Name: org/codehaus/janino/Java$NullLiteral.class
SHA-256-Digest: hTa5F6/i+MDzgAhlb55+QMT29SxtChoCUwtRjhsLfjA=

Name: org/codehaus/janino/UnitCompiler$26.class
SHA-256-Digest: O9WrrzSwwTrOsMW/nwdHRTMp2RMyRRl+vd/csSV9mR0=

Name: org/codehaus/janino/UnitCompiler$28$1.class
SHA-256-Digest: MlpXz+xkbhKqNDgZD+hDNwXnjn6DokQaGHg/V9rD9Qc=

Name: org/codehaus/janino/UnitCompiler$31.class
SHA-256-Digest: MmwDxsq/gkppzPl+JwMJPC6KFyJ08QFp9MSIB+q1EK4=

Name: org/codehaus/janino/Compiler$1.class
SHA-256-Digest: AllMsUaSCvrtvaxAqmoXF5OHh2wMOnH7n2ZSm13q3Wg=

Name: org/codehaus/janino/UnitCompiler$17.class
SHA-256-Digest: OFH1XGWxVaJOH7x5DBBx2yYtlugNFV52A6O5KmhjmuE=

Name: org/codehaus/janino/util/ClassFile$BooleanElementValue.class
SHA-256-Digest: zgwz5PBV168gCSPbhcqm5G4SuRVp0VDAM9/mZDfFcXk=

Name: org/codehaus/janino/ReflectionIClass$ReflectionIConstructor.class
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31j1FFU8TXAu1Eyj9x19WKTIq7kOIL0fKSPi8l/Ymdc=

Name: org/codehaus/janino/util/ClassFile$ConstantFieldrefInfo.class
SHA-256-Digest: Z2PEMepAWJlU/QervQKLlBfzrumAtY3T8nBN7i+kjVM=

Name: org/codehaus/janino/Java.class
SHA-256-Digest: BWuUBokVhIEdouY2XIa591HIKv83ANosvpMWgXWvM50=

Name: org/codehaus/janino/ClassFileIClass$1.class
SHA-256-Digest: vm8Ldzweqg2aULHLFtHu0mAkE6Alj16jFSkhnh2hdE8=

Name: org/codehaus/janino/CodeContext$FixUp.class
SHA-256-Digest: 9S06D9THlRFbr/nLYjabnTntDGVHSRCVqnqLmhcJLCw=

Name: org/codehaus/janino/Java$ClassDeclaration.class
SHA-256-Digest: SxGIEFMMeBdgzUZxVndJxRZ2BCCOVkFsLU4UHsUI6VE=

Name: org/codehaus/janino/Java$Locatable.class
SHA-256-Digest: eV10WvgA4V2LFgs6Z5dOdKd8CakNZAhk3a+131pAMuA=

Name: org/codehaus/janino/TokenStreamImpl.class
SHA-256-Digest: tg/SCpyg58XVYijleV0F8NSfl0bbFoAxLz2SMt4G7xA=

Name: org/codehaus/janino/util/ClassFile$Annotation.class
SHA-256-Digest: 5MuVV+haCq/c+jbPgVEB8te3ewBT8wJSyf+Jl66ElIg=

Name:
org/codehaus/janino/Compiler$CompilerIClassLoader.class
SHA-256-Digest: tWRIopEcSZJKCLljQM0mnxsY9SKGEDob0Jhl5t7iANQ=

Name: org/codehaus/janino/Java$Initializer.class
SHA-256-Digest: O4ofPHLRVdRuVayQ+LoWIPA6luPRqI0TxOQa1Wwq1i0=

Name: org/codehaus/janino/Java$AccessModifier.class
SHA-256-Digest: bu95pe/OgGZrYkBWjKKT/PLYJFNzUCJf6IS0t/3njc0=

Name: org/codehaus/janino/Java$Scope.class
SHA-256-Digest: q7MMiS1ghcxhcoIL7BTlufhuuyo6j5LpyZobMdpJkJE=

Name: org/codehaus/janino/Java$ElementValue.class
SHA-256-Digest: G/Eveph4m612ZUGMPWXaSPp2rFrZ9LbaznJUackL1tk=

Name: org/codehaus/janino/Unparser$1.class
SHA-256-Digest: zH3gIGB90LAynJcNbbn2H8tFC0RuzkqB7g2/I0x2eSc=

Name: org/codehaus/janino/Java$Cast.class
SHA-256-Digest: Ts8bxqyiAw599n1YPnLGGHQqZ/2w8vCm7D5bBODFGw8=

Name: org/codehaus/janino/Java$LocalVariableSlot.class
SHA-256-Digest: vLvABAY+oIiB/9xPWRJXq3bEjZx20qttS+smvE1ks8U=

Name: org/codehaus/janino/Java$WhileStatement.class
SHA-256-Digest: XzdShrFwCSx5z8HiKre5rTDBOB7ZJJlzhZoqQriapKs=

Name:
org/codehaus/janino/util/ClassFile$EnumConstValue.class
SHA-256-Digest: 1un25QnZ53i+HLC3Jekr3CLtkcshuTtddVDEEef+A4o=

Name: org/codehaus/janino/UnitCompiler$23.class
SHA-256-Digest: 9nL5Z4jcTtf2iN77bVgSUgyMf2wZV1ilpabABQaiG9E=

Name: org/codehaus/janino/Java$VariableDeclarator.class
SHA-256-Digest: 0JZVuOr8Q+Ez7OUP5hFH8Wp5vnu1atY+4v1dvZjknS4=

Name: org/codehaus/janino/samples/package-info.class
SHA-256-Digest: egnZaOIrPGZaFxh99RqHTyOuOaN1iNecdw1GMf8cogE=

Name: org/codehaus/janino/Java$SwitchStatement$SwitchBlockStatementGroup
.class
SHA-256-Digest: rAh4sxe+XtzXz3B5F6VS+lBMmFbOvc2sHDKRz4v+OpQ=

Name: org/codehaus/janino/Java$ContinuableStatement.class
SHA-256-Digest: fpOoXRjhkNQHK6ZAJDnlusWVXXqlcu+D60KgrCFq90g=

Name: org/codehaus/janino/Compiler$3.class
SHA-256-Digest: i+MDCb+d6pjScxgQZNuG9FOa9vXauSGPH2XDRRORdJ0=

Name: org/codehaus/janino/UnitCompiler$5$1.class
SHA-256-Digest: gU2k7Y04Rdmor7CCe6GHkTWCYAAQBP5unZHKwcyYfJw=

Name: org/codehaus/janino/util/ClassFile$1.class
SHA-256-Digest:
eOkADwJTNaglO/VK2DxMpg9qxw0TcgLjyCvunmUl42Q=

Name: org/codehaus/janino/Visitor$ElementValueVisitor.class
SHA-256-Digest: rZ4JR0hhTiKRcx1EOHQBj6jpLyqZvZiHT/xrnZjl7Kc=

Name: org/codehaus/janino/SimpleCompiler$1.class
SHA-256-Digest: 7BE7gadDutC9BkL+dagDW2EdPdOu1W3I2xJyGUco6KU=

Name: org/codehaus/janino/ScriptEvaluator.class
SHA-256-Digest: q27mCYh49FMMOEvWzuJnirbOqupJCMl8Tp+d2z1Sdlk=

Name: org/codehaus/janino/Java$Block.class
SHA-256-Digest: lZnM6BYodTTeHui6msLQ+jY8XEJBwVmi4ZlmGOQvJlc=

Name: org/codehaus/janino/Java$PackageDeclaration.class
SHA-256-Digest: 9zr/UG8z74I8Mdr1xoQlEQ+320w7hMrdpNpzKVQd2yA=

Name: org/codehaus/janino/ClassLoaderIClassLoader.class
SHA-256-Digest: X6SA2gIEs0oGsjsrRBGi0EvwEBzLsPXgDqnlNPdpjic=

Name: org/codehaus/janino/Java$PackageMemberTypeDeclaration.class
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Name: org/codehaus/janino/util/DeepCopier$7.class
SHA-256-Digest: AvkgYu7fP/+dsJpXSDT3G0ijrIjl8OtCSlYCtRh/zE0=

Name:
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Name: org/codehaus/janino/util/ClassFile$ConstantElementValue$Visitor.cl
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SHA-256-Digest: Je41gASiHpPr+dEfVCd6DLGbJH+OHff4m1xIFS7kUzE=

Name: org/codehaus/janino/util/signature/SignatureParser$ThrowsSignature
.class
SHA-256-Digest: YQFUcoW3YTLAPMpFIj7wU6bd9FllGxFAiD+4AMtDnQc=

Name: org/codehaus/janino/UnitCompiler$25.class

SHA-256-Digest: qqpc3L6isD3PnXPptggf6beDQ8jwNnnw3VIKbUpeRZM=

Name: org/codehaus/janino/Java$MethodReference.class
SHA-256-Digest: PrFGPoa80oWidJ8+DsB+BHgNEUnZiber4NxHuzkg60U=

Name: org/codehaus/janino/util/DeepCopier$10.class
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Name: org/codehaus/janino/Java$LambdaBody.class
SHA-256-Digest: lY7hiUrB+q4Mm8ATTQrH4tiS5zinYUwVsJB66aTJ05g=

Name: org/codehaus/janino/Unparser$9.class
SHA-256-Digest: cupKvwN8y9X7FGvtZyeu7HGxiOyLQOHVrlXvXTZ+BSk=

Name: org/codehaus/janino/UnitCompiler$28$2.class
SHA-256-Digest:
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Name: org/codehaus/janino/Java$ExpressionStatement.class
SHA-256-Digest: 1X1KR8szGENzMsUP3Dd1k9XlUjM6SbOF0vzO0B+vclo=

Name: org/codehaus/janino/Java$ParameterAccess.class
SHA-256-Digest: k2SYpNYiSy1tPm7FAMVlWARUJcym4syc6Zm/jnqjgHM=

Name: org/codehaus/janino/UnitCompiler$38.class
SHA-256-Digest: ZWv7fqdahnh47UVyeKzL0k49bPK8bEphy5NdWLmfwDo=

Name: org/codehaus/janino/CodeContext$OffsetBranch.class
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Name: org/codehaus/janino/util/DeepCopier$5.class
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Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$Verifica
tionTypeInfo.class
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Name: org/codehaus/janino/UnitCompiler$39$3.class
SHA-256-Digest: QGm2j6nCPPBpG0LI5ftX9dkG8mr6Q8ljx0DsH+nEM1Y=

Name: org/codehaus/janino/Unparser$3.class
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Name:
org/codehaus/janino/Java$ArrayAccessExpression.class
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Name: org/codehaus/janino/ReflectionIClass$3.class

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Name: org/codehaus/janino/Unparser$18.class
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Name: org/codehaus/janino/util/signature/SignatureParser$FormalTypeParam
eter.class
SHA-256-Digest: 0my8rbbAhtctWC0sCYJQOlaPyAQxqTx9WuYqOTBTyvA=

Name: org/codehaus/janino/Unparser$12.class
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Name: org/codehaus/janino/util/charstream/UnexpectedCharacterException.c
lass
SHA-256-Digest: f0w+Np8j8Mr4iOEouVagXbXDQB/JYVgUH1RJ6mnsOUM=

Name: org/codehaus/janino/Java$NormalAnnotation.class
SHA-256-Digest: XXB9xtZraVbdhBa/dWp4VoEYVTvSFGH5z86L+2EplO4=

Name: org/codehaus/janino/Java$ReturnStatement.class
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Name: org/codehaus/janino/util/AbstractTraverser$1.class
SHA-256-Digest: p+KDthLt5+1kTKLD8Sm8Y4MWDs4Bu+pYM05a+iEu43Y=

Name: org/codehaus/janino/Parser.class
SHA-256-Digest: 5AgkcUZtAdP+DbjkhxW7oekqVLPS7MamWbSe3JWnxZU=

Name: org/codehaus/janino/Java$SynchronizedStatement.class
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Name: org/codehaus/janino/Access.class
SHA-256-Digest: qvNgbo9lD/q25Ku9acRZsAsyjfy9uj/qrB57WxGQMx4=

Name: org/codehaus/janino/Unparser$4.class
SHA-256-Digest: XNr4fP2sQYZ+hA5DbIoPZqaXJPVZbsTGzbxnQ4Ap0fo=

Name: org/codehaus/janino/UnitCompiler$33.class
SHA-256-Digest: on691Z9oYp8HEPMOJkrpyCG8vxoH46Hr4d4+MLRXpgw=

Name: org/codehaus/janino/UnitCompiler$14$1.class
SHA-256-Digest: iBgcGQZ7hIx6He6VbxtdZFzQDBafUe38tO132pssaGI=

Name: org/codehaus/janino/util/ClassFile$ConstantNameAndTypeInfo.class

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Name:
org/codehaus/janino/util/ClassFile$ClassElementValue.class
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Name: org/codehaus/janino/util/DeepCopier$4.class
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SHA-256-Digest: uyAlHOguMWnwYogJOLAcVDU1WwmFYsYvq2GabFCqcGc=

Name: org/codehaus/janino/util/ClassFile$CodeAttribute.class
SHA-256-Digest: X/9moiAZ+h4GV4VRldRq97PsvZKESusdBJbssBammrg=

Name: org/codehaus/janino/Compiler.class
SHA-256-Digest: cKnI8W1jSXjt5IcaLkhvWO8j0fRNAdk05YBBT8OC900=

Name: org/codehaus/janino/Java$Statement.class
SHA-256-Digest: ijsrs9eAgEEpkoYgJVlZmOOONRoYhPzI0tlv+4RoIMA=

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SHA-256-Digest: eK3v5i5lVx6HydDqgIon8l+nFwQZfM/9flu56dXXdzs=

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de.class
SHA-256-Digest: WS8bRh4xYzzaquUwvSgq6oENL6OJfD2WSa6eKtZiqTw=

Name: org/codehaus/janino/CodeContext.class
SHA-256-Digest: N8lw3rBN6xOUt2h8LfiqrmDQ0bjV4SuA7JzSp7dwlw0=

Name: org/codehaus/janino/Java$NamedTypeDeclaration.class
SHA-256-Digest: jpYarJUsNJMm0lgeBO8ecf5orvWepdihx510/TyQRK4=

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SHA-256-Digest: VJy/g1HhET0zcFBE45PQ/PD9uQfaRn4zlCA+wIV30nA=

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Name: org/codehaus/janino/UnitCompiler$39.class

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Name: org/codehaus/janino/IClassLoader$1.class
SHA-256-Digest: or4jnCaL8z8l8xUCUldBywIocF6Kh0GZ9nY8eEY/tu8=

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org/codehaus/janino/Parser$ClassDeclarationContext.class
SHA-256-Digest: QHkFxYr4PkxQEFCEhD+qyldc+Kg3jb29hiE3bARkqqI=

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Name: org/codehaus/janino/util/ClassFile$ConstantInvokeDynamicInfo.class
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Name: org/codehaus/janino/ReflectionIClass.class
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org/codehaus/janino/UnitCompiler$44.class
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ure.class
SHA-256-Digest: N2+NuWFHZ1RZx9496fAF1ZJGvEzPD0HDUQakUsNdl7M=

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SHA-256-Digest: v0C4cp8IgEULwkoz0DWXWtQqavmJ1AU5JJB9AlQ8i3g=

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Name: org/codehaus/janino/Visitor$ModifierVisitor.class
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org/codehaus/janino/Java$ParenthesizedExpression.class
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Name: org/codehaus/janino/Unparser$11.class
SHA-256-Digest: ZHsi4ATRMDrXJmanhz9EhofYht7ZRIrVDAzguwbpt4Y=

Name: org/codehaus/janino/Java$TypeArgument.class
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Name: org/codehaus/janino/Java$AbstractCompilationUnit$SingleTypeImportD
eclaration.class
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Name: org/codehaus/janino/UnitCompiler$34.class
SHA-256-Digest: C8uMLkxHJDgGQnQkkqtlKVVsyxRfii8j+6sf87qaht4=

Name: org/codehaus/janino/Java$ClassLiteral.class
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Name: org/codehaus/janino/Java$PackageMemberInterfaceDeclaration.class
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Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$StackMap
Frame.class
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Name: org/codehaus/janino/Parser$InterfaceDeclarationContext.class
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Name: org/codehaus/janino/Token.class
SHA-256-Digest: xrBhQQFC/9i730OdnaN1iMSHud3kl/NmFN9AN85kNUM=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$4.class
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Name: org/codehaus/janino/Unparser$7.class
SHA-256-Digest: l72gCYJ6a4YO5ZTGMK1ZKBuk8rx8Te+9t9WK/L4jzN8=

Name: org/codehaus/janino/UnitCompiler$37.class
SHA-256-Digest: VdeSU6BXKsbHQMCwgyUy2/Tbvmmfx8T09sEl+DnF6Qw=

Name: org/codehaus/janino/Visitor$TypeArgumentVisitor.class
SHA-256-Digest: PyBx8wgsEQ4gkF6LtQWinTNaXnrZNegbPe98gd7BKpo=

Name: org/codehaus/janino/Java$ModularCompilationUnit.class
SHA-256-Digest: asX6nmSlbOz0qRVkXVUkcDKdqynLTW1bT/qNwrJ9DxM=

Name: org/codehaus/janino/util/ClassFile$ExceptionsAttribute.class
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org/codehaus/janino/util/Traverser.class
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Name: org/codehaus/janino/Java$ForStatement.class
SHA-256-Digest: vsMSfzGmLrWN9KHUcItOkjga4BfwHFkRBsbhhhDYp64=

Name: org/codehaus/janino/ClassFileIClass.class
SHA-256-Digest: Ilud0boS98fH7nhcOKYE14t7t7Oz7WXdNKQmcch/Vx4=

Name: org/codehaus/janino/util/ClassFile$ClassFileException.class
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Name: org/codehaus/janino/Java$LocalVariable.class
SHA-256-Digest: zY9XK+PmtFvAAKT8Kv/Z+VAq2/kqgJ2O9YsIr0zxxOc=

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org/codehaus/janino/Java$LocalClassDeclaration.class
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SHA-256-Digest: g93dUSNsJV5c1Nj8z8PYUaDOfZD5hqO/tVmFXfrASHA=

Name: org/codehaus/janino/ReflectionIClass$2.class
SHA-256-Digest: KkeWxpZncsllrGHcBiPLI/1TrAAGsuNwzKcyAEM6Yio=

Name: org/codehaus/janino/util/DeepCopier$1.class
SHA-256-Digest: +hbKJp3hcmdTYdgji/7iGhXwXgS8/YTkMNhGMnzlPAI=

Name: org/codehaus/janino/Java$NewClassInstance.class
SHA-256-Digest: Zb6Nyt3HXFCc+uCWMIKGjJmcRPicM9G6fs+G0TO6SqI=

Name: org/codehaus/janino/util/ClassFile$ConstantMethodHandleInfo.class
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Name:
org/codehaus/janino/util/signature/package-info.class
SHA-256-Digest: Xsj685G34t8qyE40frAhRxV+/H2YP6Qhzzz4yCw4Yfc=

Name: org/codehaus/janino/Java$FieldDeclarationOrInitializer.class
SHA-256-Digest: 5Evb7VvZHNmXUlNrrFNrtFCZm6rmO4OU/q9HNT3xsLw=

Name: org/codehaus/janino/util/ClassFile$MethodInfo.class
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Name: org/codehaus/janino/Java$Invocation.class
SHA-256-Digest: tI2qEzPGs3VYltqnvJl7KUwgzWK+Eaon/+dImMeaKbA=

Name: org/codehaus/janino/Unparser$14.class
SHA-256-Digest: BOFtqN4Bu5PJ28qB1XLzsoXn/Vx3EFN6Q/Po8Vfm1zI=

Name: org/codehaus/janino/util/ClassFile$LocalVariableTableAttribute.cla
ss
SHA-256-Digest: Ni/4X0HaxVreeh8/hI1B8JUUdiONHvATtv2yuvO8tME=

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SHA-256-Digest:
26X6p/2zDPpTu7+P1k4ALZTa6ihGwkWc910x2Yuf25Q=

Name: org/codehaus/janino/IClass$PrimitiveIClass.class
SHA-256-Digest: Xe62oauLQu+SU2IhnK8+P01jC3cUmu99oioNGwAZDjk=

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SHA-256-Digest: HMqlF23YeSrwVoiKzS6yy27fpPCYcattEvjFEbeVzrA=

Name: org/codehaus/janino/Java$FormalLambdaParameters.class
SHA-256-Digest: O1jJisKdYBjNd07bD3lBZeVTX2r4EW9lD42JLvvZa7w=

Name: org/codehaus/janino/Java$ForEachStatement.class
SHA-256-Digest: 9jrlHZ1rnU+/YVsgAmI3wJl1D59UpgbEVoHC/BKwP4w=

Name: org/codehaus/janino/Java$CatchClause.class
SHA-256-Digest: los3fzcSDecKf9GQFEs37/pmjpASdj1xbG9Zfm5ofYs=

Name: org/codehaus/janino/UnitCompiler$36.class
SHA-256-Digest: QFETa16TDjczF/pTihfcAmN6DIoY8CHk2VwTsXUbgww=

Name: org/codehaus/janino/ITypeVariable.class
SHA-256-Digest: A9vhs87BgJnukJQkhTp3lCwwGj62R6Oh/7va0sl/O8Y=

Name: org/codehaus/janino/Java$CharacterLiteral.class
SHA-256-Digest: QmmXotLYLx00GgN7AAsGfwvOJycuiTtm8MXMmEc6c24=

Name:
org/codehaus/janino/util/ClassFile$DoubleElementValue.class
SHA-256-Digest: lGGYYU2chtAkWO5ruDVn6z3fxeksy1I0F8Z+L4zgD2c=

Name: org/codehaus/janino/Java$LabeledStatement.class
SHA-256-Digest: raDDo8co0U6GprI3T+pM2jlLACOsHcogUDA23vjw60U=

Name: org/codehaus/janino/UnitCompiler$41.class
SHA-256-Digest: jaSsgc280fn0e65PB3WsFezQfkq5XzbM0zeijNxUzRc=

Name: org/codehaus/janino/Java$MemberInterfaceDeclaration.class
SHA-256-Digest: VfDa7SUjOtiZWYYjT9iBePYk4JDzzEvCPNudA79NAqI=

Name: org/codehaus/janino/util/ClassFile$CodeAttribute$ExceptionTableEnt
ry.class
SHA-256-Digest: 73SexmP6HXhyIl6bALpOELixx2GortrUqII9/2TA2Xs=

Name: org/codehaus/janino/Unparser$8.class
SHA-256-Digest: Fn6xISp2Ee0LAFLgRjNwneifXdEaMIrNsTCmRKG4+SE=

Name: org/codehaus/janino/Java$ExpressionLambdaBody.class
SHA-256-Digest: FMBWscxQnqYzYYk4BmNHfl6cqAkKOfwPCpOedqnOIcM=

Name: org/codehaus/janino/UnitCompiler$15$1.class
SHA-256-Digest: cUvrxw7t7TxTD72CdEA2dTsEbUNotQajlaz56rlAYlE=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$2.class
SHA-256-Digest:
KtM9eRP3+RuXGPivGMtWC8oeKMZiu4ZDb1rnCrkcBa0=

Name: org/codehaus/janino/ReflectionIClass$1.class
SHA-256-Digest: uVXV+NCCns88rZPfLP2XL3SQvUr/5kh0P06yIVjiyCA=

Found in path(s):
* /janino-3-1-12-3-jar/META-INF/MANIFEST.MF

1.151 hypersistence-tsid 2.1.1

1.151.1 Available under license :

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* /hypersistence-tsid-2-1-1-sources-1-jar/META-INF/maven/io.hypersistence/hypersistence-tsid/pom.xml

1.152 google-http-client 1.44.1

1.152.1 Available under license :

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Manifest-Version: 1.0
Implementation-Title: Google HTTP Client Library for Java
Bundle-Description: Google HTTP Client Library for Java. Functionality
 that works on all supported Java platforms, including Java 7 (or
higher) desktop (SE) and web (EE), Android, and Google App Engine.

Automatic-Module-Name: com.google.api.client
Bundle-License: http://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.google.http-client.google-http-client
Implementation-Version: 1.44.1
Bnd-LastModified: 1706298314950
Bundle-ManifestVersion: 2
Bundle-DocURL: https://www.google.com/
Bundle-Vendor: Google
Import-Package: javax.annotation;resolution:=optional;version="[3.0,4)
",com.google.api.client.http,com.google.api.client.json,com.google.ap
i.client.json.webtoken,com.google.api.client.testing.util,com.google.
api.client.util,com.google.api.client.util.escape,com.google.common.b
ase;version="[30.1,31)",com.google.common.collect;version="[30.1,31)"
 ,com.google.common.io;version="[30.1,31)",com.google.common.util.conc
urrent;version="[30.1,31)",io.opencensus.common,io.opencensus.contrib
.http.util,io.opencensus.trace,io.opencensus.trace.export,io.opencens
us.trace.propagation,javax.net.ssl,org.apache.http,org.apache.http.cl
ient,org.apache.http.client.methods,org.apache.http.conn,org.apache.h
ttp.conn.params,org.apache.http.conn.routing,org.apache.http.conn.sch
eme,org.apache.http.conn.ssl,org.apache.http.entity,org.apache.http.i
mpl.client,org.apache.http.impl.conn,org.apache.http.impl.conn.tsccm,
org.apache.http.message,org.apache.http.params,org.apache.http.protoc
ol
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: Google
Export-Package: com.google.api.client.testing.http;uses:="com.google.a
pi.client.http,com.google.api.client.util";version="1.44.1",com.googl
e.api.client.testing.http.apache;uses:="org.apache.http,org.apache.ht
 tp.client,org.apache.http.conn,org.apache.http.conn.routing,org.apach
e.http.impl.client,org.apache.http.params,org.apache.http.protocol";v
ersion="1.44.1",com.google.api.client.testing.http.javanet;version="1
.44.1",com.google.api.client.testing.json;uses:="com.google.api.clien
t.json";version="1.44.1",com.google.api.client.testing.json.webtoken;
uses:="com.google.api.client.json.webtoken,javax.net.ssl";version="1.
44.1",com.google.api.client.testing.util;uses:="com.google.api.client
.util";version="1.44.1",com.google.api.client.http;uses:="com.google.
api.client.util,io.opencensus.trace,io.opencensus.trace.propagation,j
avax.annotation";version="1.44.1",com.google.api.client.http.apache;u
ses:="com.google.api.client.http,org.apache.http,org.apache.http.clie
nt,org.apache.http.conn.ssl,org.apache.http.impl.client,org.apache.ht
tp.params";version="1.44.1",com.google.api.client.http.json;uses:="co
m.google.api.client.http,com.google.api.client.json";version="1.44.1"
 ,com.google.api.client.http.javanet;uses:="com.google.api.client.http
,javax.net.ssl";version="1.44.1",com.google.api.client.json;uses:="co
m.google.api.client.util";version="1.44.1",com.google.api.client.json
.webtoken;uses:="com.google.api.client.json,com.google.api.client.uti
l,javax.net.ssl";version="1.44.1",com.google.api.client.json.rpc2;use

s:="com.google.api.client.util";version="1.44.1",com.google.api.clien
t.util;uses:="javax.net.ssl";version="1.44.1",com.google.api.client.u
til.escape;version="1.44.1",com.google.api.client.util.store;version=
"1.44.1"
Bundle-Name: Google HTTP Client Library for Java
Bundle-Version: 1.44.1
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8

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* /google-http-client-1-44-1-2-jar/META-INF/MANIFEST.MF

1.153 auto-value-annotations 1.10.4

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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoValueOrBuilderTemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/TypeSimplifier.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoValueTemplateVars.java
*
/auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoValueProcessor.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/ToPrettyStringValidator.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/ClassNames.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/ExtensionClassTypeSpecBuilder.java
*
/auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/Nullables.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoBuilderProcessor.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/Annotations.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/ToPrettyString.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderMethodClassifierForAutoBuilder.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderMethodClassifierForAutoValue.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/AutoBuilder.java

* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoBuilderTemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/ToPrettyStringMethods.java
*
 /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/toprettystring/processor/ToPrettyStringExtension.java
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*/
/**
 * Specifies that AutoValue should copy any annotations from the annotated element to the
 * generated class. This annotation supports classes and methods.
 *
 * <p>The following annotations are excluded:
 *
 *
 *   AutoValue and its nested annotations;
 *   any annotation appearing in the {@link AutoValue.CopyAnnotations#exclude} field;
 *   any class annotation which is itself annotated with the {@link
 *   java.lang.annotation.Inherited} meta-annotation.
 *
 *
 * <p>For historical reasons, annotations are always copied from an {@code @AutoValue} property
 * method to its implementation, unless {@code @CopyAnnotations} is present and explicitly
 * {@linkplain CopyAnnotations#exclude excludes} that annotation. But annotations are not copied
 * from the {@code @AutoValue} class itself to its implementation unless {@code @CopyAnnotations}
 * is present.
 *
 * <p>If you want to copy annotations from your {@literal @}AutoValue-annotated class's methods to
 * the generated fields in the AutoValue_... implementation, annotate your method
 * with {@literal @}AutoValue.CopyAnnotations. For example, if Example.java is:<pre>
 *
 *   {@code @}Immutable
 *   {@code @}AutoValue

```
 *   abstract class Example {
 *     {@code @}CopyAnnotations
 *     {@code
@}SuppressWarnings("Immutable") // justification ...
 *     abstract Object getObject();
 *     // other details ...
 *   }</pre>
 *
 * <p>Then AutoValue will generate the following AutoValue_Example.java:<pre>
 *
 *   final class AutoValue_Example extends Example {
 *     {@code @}SuppressWarnings("Immutable")
 *     private final Object object;
 *
 *     {@code @}SuppressWarnings("Immutable")
 *     {@code @}Override
 *     Object getObject() {
 *       return object;
 *     }
 *
 *     // other details ...
 *   }</pre>
 *
 * <p>When the <i>type</i> of an {@code @AutoValue} property method has annotations, those are
 * part of the type, so by default they are copied to the implementation of the method. But if
 * a type annotation is mentioned in {@code exclude} then it is not copied.
 *
 * <p>For example, suppose {@code @Confidential} is a
 * {@link java.lang.annotation.ElementType#TYPE_USE TYPE_USE} annotation:
 *
 * <pre>
 *
 *   {@code @}AutoValue
 *   abstract class Person {
 *     static Person create({@code @}Confidential String name, int id) {
 *       return new AutoValue_Person(name, id);
 *     }
 *
 *     abstract {@code @}Confidential String name();
 *     abstract int id();
 *   }</pre>
 *
 * Then the implementation of the {@code name()} method will also have return type
 * {@code @Confidential String}. But if {@code name()} were written like this...
 *
 * <pre>
 *
 *     {@code @AutoValue.CopyAnnotations(exclude = Confidential.class)}
```

```
 *     abstract {@code @}Confidential String name();</pre>
 *
 * <p>...then the implementation of {@code name()} would have return type {@code String} without
 * the annotation.
 *
 * @author Carmi Grushko
 */
```

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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/AutoValue.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/TypeVariables.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/memoized/Memoized.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/memoized/processor/MemoizeExtension.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/PropertyBuilderClassifier.java
*
/auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/Optionalish.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/memoized/processor/ClassNames.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/memoized/processor/MemoizedValidator.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/TypeEncoder.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/AutoValueExtension.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/ExtensionContext.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderMethodClassifier.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/TypeMirrorSet.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/MissingTypes.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/TemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AbortProcessingException.java
*
 /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoAnnotationProcessor.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/Reformatter.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoAnnotationTemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/ErrorReporter.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/GwtSerialization.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AnnotationOutput.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoValueBuilderProcessor.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderSpec.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/SimpleMethod.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoOneOfProcessor.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/AutoOneOf.java
*
 /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoValueishTemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/ClassNames.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/AutoOneOfTemplateVars.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/PropertyNames.java
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* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/ForwardingClassGenerator.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/BuilderRequiredProperties.java
*
/auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/Executable.java
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```

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* /auto-value-annotations-1-10-4-sources-2-jar/META-INF/maven/com.google.auto.value/auto-value-annotations/pom.xml
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```
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```

Found in path(s):
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/equalshashcode.vm

* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/autovalue.vm
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/gwtserializer.vm
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/autobuilder.vm
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/builder.vm
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/autoannotation.vm
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/autooneof.vm
*
/auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/processor/autobuilderannotation.vm
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*/

Found in path(s):
* /auto-value-annotations-1-10-4-sources-2-
jar/com/google/auto/value/extension/serializable/serializer/SerializerFactoryLoader.java

* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/impl/SerializerFactoryImpl.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/processor/SerializableAutoValueExtension.java
*
/auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/runtime/FunctionWithExceptions.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/impl/OptionalSerializerExtension.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/processor/PropertyMirror.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/processor/ClassNames.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/SerializableAutoValue.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/interfaces/SerializerExtension.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/impl/ImmutableListSerializerExtension.java
*
/auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/interfaces/Serializer.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/impl/ImmutableMapSerializerExtension.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/interfaces/SerializerFactory.java
* /auto-value-annotations-1-10-4-sources-2-jar/com/google/auto/value/extension/serializable/serializer/impl/IdentitySerializerFactory.java

1.154 google-oauth-client 1.35.0

1.154.1 Available under license :

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Manifest-Version: 1.0
Implementation-Title: Google OAuth Client Library for Java
Bundle-Description: Google OAuth Client Library for Java. Functionalit
y that works on all supported Java platforms, including Java 7 (or
higher) desktop (SE) and web (EE), Android, and Google App Engine.
Automatic-Module-Name: com.google.api.client.auth
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0.txt
Bundle-SymbolicName: com.google.oauth-client
Implementation-Version: 1.35.0
Bnd-LastModified: 1705579355152
Bundle-ManifestVersion: 2
Bundle-RequiredExecutionEnvironment: JavaSE-1.7
Bundle-DocURL: https://www.google.com/

Bundle-Vendor: Google
Import-Package: com.google.api.client.auth.oauth2,com.google.api.clien
t.http;version="[1.43,2)",com.google.api.client.http.javanet;version=
"[1.43,2)",com.google.api.client.json;version="[1.43,2)",com.google.a
pi.client.json.gson,com.google.api.client.json.webtoken;version="[1.4
3,2)",com.google.api.client.util;version="[1.43,2)",com.google.api.cl
ient.util.escape;version="[1.43,2)",com.google.api.client.util.store;
version="[1.43,2)",com.google.common.base;version="[31.1,32)",com.goo
gle.common.cache;version="[31.1,32)",com.google.common.collect;versio
n="[31.1,32)",com.google.common.io;version="[31.1,32)",com.google.com
mon.util.concurrent;version="[31.1,32)",javax.crypto,javax.crypto.spe
c
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: Google
Export-Package: com.google.api.client.auth.oauth2;uses:="com.google.ap
i.client.http,com.google.api.client.json,com.google.api.client.util,c
om.google.api.client.util.store";version="1.35.0",com.google.api.clie
nt.auth.openidconnect;uses:="com.google.api.client.auth.oauth2,com.go
ogle.api.client.http,com.google.api.client.json,com.google.api.client
.json.webtoken,com.google.api.client.util";version="1.35.0",com.googl
e.api.client.auth.oauth;uses:="com.google.api.client.http,com.google.
api.client.util";version="1.35.0"
Bundle-Name: Google OAuth Client Library for Java
Bundle-Version: 1.35.0
Build-Jdk-Spec: 1.8
Created-By: Apache Maven Bundle Plugin 5.1.8

Found in path(s):
* /google-oauth-client-1-35-0-2-jar/META-INF/MANIFEST.MF

1.155 grpc-inprocess 1.62.2

1.155.1 Available under license :

Apache-2.0

1.156 grpc-auth 1.62.2

1.156.1 Available under license :

Apache-2.0

1.157 google-auth-library-credentials 1.23.0

1.157.1 Available under license :

BSD-3-Clause

1.158 grpc-protobuf 1.62.2

1.158.1 Available under license :

Apache-2.0

1.159 grpc-services 1.62.2

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Found in path(s):
* /grpc-services-1-62-2-jar/grpc/health/v1/health.proto
* /grpc-services-1-62-2-jar/grpc/channelz/v1/channelz.proto
* /grpc-services-1-62-2-jar/grpc/reflection/v1alpha/reflection.proto

1.160 grpc-util 1.62.2

1.160.1 Available under license :

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1.161 grpc-stub 1.62.2

1.161.1 Available under license :

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1.162 googleauthlibraryoauthhttp 1.23.0

1.162.1 Available under license :

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1.163 hypersistence-utils-hibernate-63 3.7.3

1.163.1 Available under license :

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1.164 activation-api 2.1.3

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1.167 grpc-grpclb 1.62.2

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* /grpc-grpclb-1-62-2-3-jar/grpc/lb/v1/load_balancer.proto

1.168 proto-google-common-protos 2.39.0

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1.169 firebase-admin 9.3.0

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1.170 grpc-googleapis 1.62.2

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1.171 gax 2.48.0

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```
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatcherStats.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedServerStreamingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingCallSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingDescriptor.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/OpencensusTracer.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/Batcher.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedClientStreamingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedOperationCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedBatchingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedResponseObserver.java
```

* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/ResourceCloseException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedOperationInitialCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchEntry.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatcherImpl.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/TracedBidiCallable.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/FlowControlEventStats.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/internal/EnvironmentProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/internal/ApiCallContextOptions.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/TimedRetryAlgorithmWithContext.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ResultRetryAlgorithmWithContext.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/mtls/ContextAwareMetadataJson.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/DynamicFlowControlSettings.java

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/**
  * Instantiates a new instance capturing the {@link io.opencensus.trace.Tracer} in {@code
  * Tracing.getTracer}. It will also override the service name of the grpc stub with a custom
  * client name. This is useful disambiguate spans created outer manual written wrappers and around
  * generated gapic spans.
  *
  * @param spanAttributes the attributes to stamp on every span. Should
 include things like library
  *     version.
  */
```

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* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiClientHeaderProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/ExecutorAsBackgroundResource.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/SpoolingResponseObserver.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/paging/AsyncPage.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/PermissionDeniedException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ResponseObserver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/DirectRetryingExecutor.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/PartitionKey.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ExponentialPollAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/TimedRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/CheckingAttemptCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ServerStreamIterator.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FirstElementCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ResultRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiExceptionFactory.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FixedHeaderProvider.java
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 /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ClientContext.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ServerStreamingCallSettings.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/OperationCheckingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/NoCredentialsProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/DataLossException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/RequestBuilder.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/StatusCode.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ServerStream.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/BaseBackgroundResource.java
*
 /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/Semaphore64.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ExponentialRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/CallbackChainRetryingFuture.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/LongRunningClient.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/NonCancellableFuture.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ClientStreamingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/QueuingResponseObserver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/OutOfRangeException.java

* /gax-2-48-0-sources-1-jar/com/google/api/gax/longrunning/OperationSnapshot.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/InternalException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RequestParamsEncoder.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/BackgroundResource.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/OperationCallable.java
*
/gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/RetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/DeadlineExceededException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RequestUrlParamsEncoder.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/longrunning/OperationResponsePollAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiStreamObserver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiCallContext.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FailedPreconditionException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/Callables.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/core/GaxProperties.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiResultRetryAlgorithm.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/UnauthenticatedException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/CancelledException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/AlreadyExistsException.java
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/gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/NoHeaderProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/SpoolingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/BasicRetryingFuture.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/UnknownException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/UnavailableException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/AttemptCallable.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/SimpleStreamResumptionStrategy.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/FixedWatchdogProvider.java
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 /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/StreamResumptionStrategy.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/SpanName.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/ServerStreamingAttemptException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/internal/Headers.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/RetryingServerStreamingCallable.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/tracing/BaseApiTracerFactory.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/RetryingContext.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ClientStream.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/NonBlockingSemaphore.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/InstantiatingWatchdogProvider.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BlockingSemaphore.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/ApiStreamObserverAdapter.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/WatchdogServerStreamingCallable.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/retrying/StreamingRetryAlgorithm.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/WatchdogTimeoutException.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/Watchdog.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BidiStream.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/StateCheckingResponseObserver.java
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* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/ThresholdBatchReceiver.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/batching/BatchingThreshold.java
* /gax-2-48-0-sources-1-jar/com/google/api/gax/rpc/BatchingDescriptor.java
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* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/mtls/MtlsUtils.java
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* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/TestUtils.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/testing/compute/MockMetadataServerTransport.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/package-info.java
*
/google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/compute/package-info.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/auth/oauth2/OAuth2Utils.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/auth/oauth2/DefaultCredentialProvider.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/testing/auth/oauth2/MockTokenServerTransport.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/auth/oauth2/package-info.java
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* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/javanet/GoogleNetHttpTransport.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/notifications/package-info.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/testing/notifications/MockUnparsedNotificationCallback.java
*
/google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/notifications/UnparsedNotificationCallback.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/media/MediaUploadErrorHandler.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/notifications/package-info.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/GoogleUtils.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/notifications/StoredChannel.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/util/Utils.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/notifications/NotificationUtils.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/compute/ComputeCredential.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/compute/package-info.java
*
/google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/notifications/AbstractNotification.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/notifications/UnparsedNotification.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/auth/oauth2/GooglePublicKeysManager.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/notifications/TypedNotification.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/notifications/ResourceStates.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/notifications/TypedNotificationCallback.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/testing/json/GoogleJsonResponseExceptionFactoryTesting.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/notifications/json/JsonNotificationCallback.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/json/package-info.java
*
/google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/batch/HttpRequestContent.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/notifications/json/package-info.java
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* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/services/AbstractGoogleClient.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/services/MockGoogleClient.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/services/GoogleClientRequestInitializer.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/testing/services/json/MockGoogleJsonClient.java
*
/google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/testing/services/MockGoogleClientRequest.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/services/json/package-info.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/services/CommonGoogleClientRequestInitializer.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/testing/services/package-info.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/testing/services/json/MockGoogleJsonClientRequest.java
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jar/com/google/api/client/googleapis/auth/oauth2/GoogleBrowserClientRequestUrl.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/auth/oauth2/GoogleAuthorizationCodeRequestUrl.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/media/MediaHttpUploaderProgressListener.java
*
/google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/json/GoogleJsonResponseException.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/auth/oauth2/GoogleAuthorizationCodeTokenRequest.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/auth/oauth2/GoogleRefreshTokenRequest.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/auth/oauth2/GoogleCredential.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/json/GoogleJsonError.java

* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/auth/oauth2/GoogleClientSecrets.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/auth/oauth2/GoogleOAuthConstants.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/auth/oauth2/package-info.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/media/MediaHttpUploader.java
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* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/batch/package-info.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/services/json/CommonGoogleJsonClientRequestInitializer.java
*
/google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/media/MediaHttpDownloaderProgressListener.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/auth/oauth2/GoogleTokenResponse.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/json/GoogleJsonErrorContainer.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/auth/oauth2/GoogleAuthorizationCodeFlow.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/auth/oauth2/GoogleIdToken.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/batch/BatchRequest.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/services/json/AbstractGoogleJsonClient.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/batch/BatchCallback.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/services/json/package-info.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/auth/oauth2/GoogleIdTokenVerifier.java
*
/google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/batch/json/package-info.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/batch/BatchUnparsedResponse.java
* /google-api-client-2-4-0-sources-
jar/com/google/api/client/googleapis/services/json/AbstractGoogleJsonClientRequest.java
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* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/media/package-info.java
* /google-api-client-2-4-0-sources-jar/com/google/api/client/googleapis/MethodOverride.java
*
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1.173 grpc-alts 1.62.2

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1.174 threetenbp 1.6.9

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* /threetenbp-1-6-9-sources-jar/org/threeten/bp/jdk8/DefaultInterfaceEra.java
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 /threetenbp-1-6-9-sources-jar/org/threeten/bp/DateTimeUtils.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/OffsetTime.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/MinguoEra.java
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* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/FormatStyle.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalField.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/Era.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneOffsetTransition.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/HijrahEra.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/Ser.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/TzdbZoneRulesCompiler.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/HijrahChronology.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/TextStyle.java
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 /threetenbp-1-6-9-sources-jar/org/threeten/bp/jdk8/DefaultInterfaceTemporalAccessor.java
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* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/StandardZoneRules.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalAccessor.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Instant.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoLocalDateTimeImpl.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/LocalDate.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeTextProvider.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/IsoFields.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneOffsetTransitionRule.java
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* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalAdjusters.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/jdk8/DefaultInterfaceTemporal.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/JapaneseEra.java
*
 /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneRulesProvider.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/WeekFields.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Ser.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/DayOfWeek.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/ChronoUnit.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/ValueRange.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalAmount.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/LocalDateTime.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/SignStyle.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoLocalDateTime.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/IsoEra.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/IsoChronology.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/JapaneseDate.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Clock.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Month.java
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 /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalQuery.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoPeriodImpl.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/YearMonth.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/ChronoField.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/UnsupportedTemporalTypeException.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/DateTimeException.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoZonedDateTime.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/ZoneOffset.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/ResolverStyle.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeBuilder.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Duration.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeParseContext.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/MinguoChronology.java
*
 /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/HijrahDate.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/Chronology.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/JapaneseChronology.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalAdjuster.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalQueries.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/JulianFields.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Period.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeParseException.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/Year.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/format/SimpleDateTimeFormatStyleProvider.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneRulesBuilder.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneRulesException.java
* /threetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ThaiBuddhistChronology.java
*

/threeetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneRulesInitializer.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/ZoneRegion.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/zone/Ser.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/Temporal.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/OffsetDateTime.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeFormatStyleProvider.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/ZoneId.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/LocalTime.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/zone/TzdbZoneRulesProvider.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ThaiBuddhistDate.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/ZonedDateTime.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoZonedDateTimeImpl.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoPeriod.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/temporal/TemporalUnit.java
*
/threeetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/MinguoDate.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeFormatterBuilder.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/AbstractChronology.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/zone/ZoneRules.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/format/DateTimeFormatter.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/jdk8/Jdk8Methods.java
* /threeetenbp-1-6-9-sources-jar/org/threeten/bp/chrono/ChronoDateImpl.java

1.175 proto-google-cloud-storage-v2 2.38.0-alpha

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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CryptoKeyName.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/NotificationConfigName.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/BucketName.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ProjectName.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/google/storage/v2/storage.proto
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Found in path(s):
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ListHmacKeysRequestOrBuilder.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/GetNotificationConfigRequest.java
*
 /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/GetObjectRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/GetHmacKeyRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/WriteObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/GetNotificationConfigRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ListObjectsResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-

jar/com/google/storage/v2/QueryWriteStatusResponse.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/QueryWriteStatusRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CustomerEncryption.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CancelResumableWriteResponse.java
*
/proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ReadObjectResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/WriteObjectResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/WriteObjectSpec.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ListNotificationConfigsRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ListNotificationConfigsResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListBucketsRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CreateHmacKeyResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ProjectTeam.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/StorageProto.java
*
/proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CreateBucketRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ContentRange.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/RestoreObjectRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/StartResumableWriteResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/LockBucketRetentionPolicyRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/DeleteNotificationConfigRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/DeleteNotificationConfigRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/HmacKeyMetadataOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ObjectChecksums.java
*
/proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CommonObjectRequestParams.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CreateNotificationConfigRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CancelResumableWriteRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ReadObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ObjectChecksumsOrBuilder.java

* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/Owner.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/UpdateHmacKeyRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/WriteObjectSpecOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ObjectAccessControl.java
*
 /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ChecksummedData.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/GetHmacKeyRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/OwnerOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/RestoreObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ServiceConstantsOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/GetObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/BidiWriteObjectResponse.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/UpdateObjectRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/GetServiceAccountRequest.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/HmacKeyMetadata.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/CreateBucketRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/DeleteObjectRequest.java
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 /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/DeleteBucketRequest.java
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jar/com/google/storage/v2/BucketAccessControlOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/BidiWriteObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ContentRangeOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/UpdateObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ReadObjectResponse.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/Bucket.java
*

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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/GetBucketRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/CreateHmacKeyRequestOrBuilder.java
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ProjectTeamOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/GetBucketRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/StartResumableWriteRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/BucketAccessControl.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/WriteObjectResponse.java
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/proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListObjectsRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/RewriteObjectRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-

jar/com/google/storage/v2/StartResumableWriteRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/BidiWriteObjectRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ObjectOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/NotificationConfigOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/BidiWriteObjectResponseOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/GetServiceAccountRequestOrBuilder.java
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/proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ListNotificationConfigsRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ListObjectsResponse.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ServiceConstants.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/RewriteObjectRequestOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/ServiceAccountOrBuilder.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/Object.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
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* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/DeleteObjectRequestOrBuilder.java
*
/proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ListNotificationConfigsResponse.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/LockBucketRetentionPolicyRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/DeleteHmacKeyRequest.java
* /proto-google-cloud-storage-v2-2-38-0-alpha-sources-1-
jar/com/google/storage/v2/ChecksummedDataOrBuilder.java

1.176 proto-google-iam-v1 1.34.0

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* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/AuditLogConfig.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/logging/AuditDataProto.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/PolicyOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/logging/AuditData.java
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* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/PolicyDelta.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/OptionsProto.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/TestIamPermissionsResponseOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/AuditConfig.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/SetIamPolicyRequestOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/GetIamPolicyRequest.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/PolicyDeltaOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/GetPolicyOptions.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/IamPolicyProto.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/TestIamPermissionsRequestOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/AuditConfigDeltaOrBuilder.java
*
 /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/AuditConfigOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/BindingDeltaOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/GetIamPolicyRequestOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/logging/AuditDataOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/Binding.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/TestIamPermissionsRequest.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/PolicyProto.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/AuditConfigDelta.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/BindingOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/AuditLogConfigOrBuilder.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/SetIamPolicyRequest.java
*
 /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/TestIamPermissionsResponse.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/BindingDelta.java
* /proto-google-iam-v1-1-34-0-sources-1-jar/com/google/iam/v1/GetPolicyOptionsOrBuilder.java
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Found in path(s):
* /proto-google-iam-v1-1-34-0-sources-1-jar/google/iam/v1/iam_policy.proto
* /proto-google-iam-v1-1-34-0-sources-1-jar/google/iam/v1/logging/audit_data.proto
* /proto-google-iam-v1-1-34-0-sources-1-jar/google/iam/v1/policy.proto
* /proto-google-iam-v1-1-34-0-sources-1-jar/google/iam/v1/options.proto

1.177 grpc-rls 1.62.2

1.177.1 Available under license :

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Found in path(s):
* /grpc-rls-1-62-2-2-jar/grpc/lookup/v1/rls.proto
* /grpc-rls-1-62-2-2-jar/grpc/lookup/v1/rls_config.proto

1.178 jacoco-cli 0.8.11

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Found in path(s):
* /org-jacoco-cli-0-8-11-jar/about.html
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Contributors:
Marc R. Hoffmann - initial API and implementation
-->

Found in path(s):
* /org-jacoco-cli-0-8-11-jar/META-INF/maven/org.jacoco/org.jacoco.cli/pom.xml

1.179 proto-google-cloud-firestore-v1 3.21.1

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Found in path(s):

* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/common.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/document.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/firestore/bundle.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/query_profile.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/firestore.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/query.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/bloom_filter.proto
* /proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/aggregation_result.proto
*
/proto-google-cloud-firestore-v1-3-21-1-1-jar/google/firestore/v1/write.proto

1.180 proto-google-cloud-firestore-bundle-v1 3.21.1

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Found in path(s):
* /proto-google-cloud-firestore-bundle-v1-3-21-1-jar/google/firestore/bundle/bundle.proto

1.181 google-cloud-core 2.38.0

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Found in path(s):
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/StringEnumType.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Date.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/PlatformInformation.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/ServiceDefaults.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/ServiceRpc.java
*
 /google-cloud-core-2-38-0-sources-jar/com/google/cloud/StringEnumValue.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/TransportOptions.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Timestamp.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Tuple.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/MetadataConfig.java
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Found in path(s):
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Binding.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Condition.java
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Found in path(s):
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Restorable.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/ReadChannel.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/ServiceOptions.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/spi/ServiceRpcFactory.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/ServiceFactory.java
*
 /google-cloud-core-2-38-0-sources-jar/com/google/cloud/RetryHelper.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/BaseServiceException.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/RestorableState.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/WriteChannel.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/PageImpl.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/BaseWriteChannel.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Service.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/BaseService.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/ExceptionHandler.java
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  * provisions). These features may be unstable, changed in backward-incompatible ways, and are not
  * guaranteed to be released.
  */

Found
 in path(s):
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/GcpLaunchStage.java

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* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/testing/LogRecorder.java
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Found in path(s):
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/BatchResult.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/testing/Version.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Policy.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/FieldSelector.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/testing/BaseEmulatorHelper.java
*
 /google-cloud-core-2-38-0-sources-jar/com/google/cloud/RetryOption.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/testing/BlockingProcessStreamReader.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/AsyncPageImpl.java

* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Identity.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Structs.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/ByteArray.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/NoCredentials.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/MonitoredResourceDescriptor.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/Role.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/MonitoredResource.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/package-info.java
* /google-cloud-core-2-38-0-sources-jar/com/google/cloud/testing/CommandWrapper.java

1.182 google-api-services-storage v1-rev20240319-2.0.0

1.182.1 Available under license :

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<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/maven-v4_0_0.xsd">
 <modelVersion>4.0.0</modelVersion>
 <parent>
  <groupId>org.sonatype.oss</groupId>
  <artifactId>oss-parent</artifactId>
  <version>7</version>
 </parent>

 <groupId>com.google.apis</groupId>
 <artifactId>google-api-services-storage</artifactId>
 <version>v1-rev20240319-2.0.0</version>
 <name>Cloud Storage JSON API v1-rev20240319-2.0.0</name>
 <packaging>jar</packaging>

 <inceptionYear>2011</inceptionYear>

 <organization>
  <name>Google</name>
  <url>http://www.google.com/</url>
 </organization>

 <licenses>
  <license>
   <name>The Apache Software License, Version 2.0</name>
   <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
   <distribution>repo</distribution>
  </license>
 </licenses>

```
<distributionManagement>
  <snapshotRepository>
    <id>ossrh</id>
    <url>https://google.oss.sonatype.org/content/repositories/snapshots</url>
  </snapshotRepository>
</distributionManagement>

<build>
  <plugins>
    <plugin>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>3.9.0</version>
      <configuration>
        <source>1.7</source>
        <target>1.7</target>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.sonatype.plugins</groupId>
      <artifactId>nexus-staging-maven-plugin</artifactId>
      <version>1.6.8</version>
      <extensions>true</extensions>
      <configuration>
        <serverId>ossrh</serverId>
        <nexusUrl>https://google.oss.sonatype.org/</nexusUrl>
        <autoReleaseAfterClose>true</autoReleaseAfterClose>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
       <version>2.4</version>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-jar-plugin</artifactId>
      <version>3.1.2</version>
      <configuration>
        <archive>
          <manifestEntries>
            <Automatic-Module-Name>com.google.api.services.storage</Automatic-Module-Name>
          </manifestEntries>
        </archive>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
```

```
      <version>3.1.0</version>
      <executions>
        <execution>
          <id>attach-javadocs</id>
          <goals>
            <goal>jar</goal>
          </goals>
        </execution>
      </executions>
      <configuration>
        <doclint>none</doclint>
        <doctitle>Cloud Storage JSON API ${project.version}</doctitle>
        <windowtitle>Cloud Storage JSON
API ${project.version}</windowtitle>
        <links>
          <link>http://docs.oracle.com/javase/7/docs/api</link>
          <link>https://googleapis.dev/java/google-http-client/1.44.1/</link>
          <link>https://googleapis.dev/java/google-oauth-client/1.35.0/</link>
          <link>https://googleapis.dev/java/google-api-client/2.4.0/</link>
        </links>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.codehaus.mojo</groupId>
      <artifactId>clirr-maven-plugin</artifactId>
      <version>2.8</version>
      <configuration>
        <ignoredDifferencesFile>clirr-ignored-differences.xml</ignoredDifferencesFile>
        <logResults>true</logResults>
      </configuration>
      <executions>
        <execution>
          <goals>
            <goal>check</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
  </plugins>
  <sourceDirectory>.</sourceDirectory>
  <resources>

 <resource>
      <directory>./resources</directory>
    </resource>
  </resources>
</build>
```

```
<dependencies>
  <dependency>
    <groupId>com.google.api-client</groupId>
    <artifactId>google-api-client</artifactId>
    <version>2.4.0</version>
  </dependency>
</dependencies>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
</properties>

<profiles>
  <profile>
    <id>release-sign-artifacts</id>
    <activation>
      <property>
        <name>performRelease</name>
        <value>true</value>
      </property>
    </activation>
    <build>
      <plugins>
        <plugin>
          <groupId>org.apache.maven.plugins</groupId>
          <artifactId>maven-gpg-plugin</artifactId>
          <version>1.6</version>
          <executions>
            <execution>
              <id>sign-artifacts</id>
              <phase>verify</phase>
              <goals>
                <goal>sign</goal>
              </goals>
              <configuration>
                <gpgArguments>
                  <arg>--pinentry-mode</arg>
                  <arg>loopback</arg>
                </gpgArguments>
              </configuration>
            </execution>
          </executions>
        </plugin>
      </plugins>
    </build>
  </profile>
</profiles>
</project>
```

Found in path(s):
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/pom.xml
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-jar/META-INF/maven/com.google.apis/google-api-services-storage/pom.xml
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* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.DefaultObjectAccessControls.Delete.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.ManagedFolders.Insert.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Notifications.Get.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/GoogleLongrunningListOperationsResponse.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/StorageRequest.html
*
 /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Projects.ServiceAccount.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Notifications.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/Objects.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/Bucket.Logging.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/StorageRequestInitializer.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/ObjectAccessControls.html
*
 /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Buckets.Insert.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/Storage.Projects.HmacKeys.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Operations.Get.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Projects.HmacKeys.Get.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Folders.Delete.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/Storage.Buckets.GetIamPolicy.html

*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/overview-tree.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/GoogleRpcStatus.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.ManagedFolders.Delete.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Buckets.SetIamPolicy.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/Policy.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Buckets.LockRetentionPolicy.html
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Folders.List.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Objects.GetIamPolicy.html
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* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Objects.BulkRestore.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/deprecated-list.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/Storage.Buckets.Update.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/Storage.Objects.List.html
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.ManagedFolders.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/StorageObject.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Builder.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/Bucket.ObjectRetention.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-

rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/StorageScopes.html
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/class-use/Storage.DefaultObjectAccessControls.Get.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/Storage.DefaultObjectAccessControls.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/class-use/Storage.BucketAccessControls.Patch.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.ObjectAccessControls.Get.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/Storage.Notifications.Delete.html
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/Storage.Objects.Restore.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/Storage.AnywhereCaches.Resume.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/Storage.Folders.List.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/overview-summary.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Objects.Get.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/constant-values.html
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Builder.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/model/class-use/HmacKeyMetadata.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/Storage.Objects.Patch.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/class-use/Storage.Operations.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/package-use.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/Storage.BucketAccessControls.Delete.html
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-
rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/Storage.Buckets.SetIamPolicy.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/model/Channel.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-
jar/target/apidocs/com/google/api/services/storage/Storage.Objects.Copy.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-

jar/target/apidocs/com/google/api/services/storage/model/class-use/Bucket.Website.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Buckets.LockRetentionPolicy.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/Folder.html
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* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/Storage.AnywhereCaches.Pause.html
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* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Buckets.List.html
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*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/class-use/ComposeRequest.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/Bucket.Lifecycle.Rule.Condition.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/Bucket.CustomPlacementConfig.html
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* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/class-use/Storage.Folders.html
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/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/model/class-use/ObjectAccessControls.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/apidocs/com/google/api/services/storage/model/package-tree.html
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/target/google-api-services-storage-v1-rev20240319-2-0-0-javadoc-jar/com/google/api/services/storage/Storage.html

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Found in path(s):
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/AnywhereCache.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/GoogleLongrunningOperation.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Notifications.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Expr.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/HmacKeyMetadata.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/HmacKeysMetadata.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/ObjectAccessControls.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/ServiceAccount.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/AnywhereCaches.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/TestIamPermissionsResponse.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Folder.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/ManagedFolder.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/BucketAccessControls.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Policy.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Buckets.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-

jar/com/google/api/services/storage/StorageScopes.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/GoogleLongrunningListOperationsResponse.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/ObjectAccessControl.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Bucket.java
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/RewriteResponse.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/StorageRequestInitializer.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/GoogleRpcStatus.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/ComposeRequest.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Channel.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Objects.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/StorageObject.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Folders.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/StorageRequest.java
*
/google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/ManagedFolders.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/BulkRestoreObjectsRequest.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/Notification.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/Storage.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/BucketAccessControl.java
* /google-api-services-storage-v1-rev20240319-2-0-0-sources-2-jar/com/google/api/services/storage/model/HmacKey.java

1.183 grpc-google-cloud-storage-v2 2.38.0-alpha

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Found in path(s):
* /grpc-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/StorageGrpc.java

1.184 gapic-google-cloud-storage-v2 2.38.0-alpha

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Found in path(s):
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/stub/StorageStub.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/stub/StorageStubSettings.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/stub/GrpcStorageStub.java
*

/gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/stub/GrpcStorageCallableFactory.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/package-info.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/StorageSettings.java
* /gapic-google-cloud-storage-v2-2-38-0-alpha-sources-1-jar/com/google/storage/v2/StorageClient.java

1.185 google-cloud-storage 2.38.0

1.185.1 Available under license :

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1.186 google-cloud-firestore 3.21.1

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Found in path(s):
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/GeoPoint.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/CollectionReference.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/UserDataConverter.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/WriteBatch.java
*
/google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/annotation/ThrowOnExtraProperties.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/spi/v1/FirestoreRpc.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/TransactionOptions.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/Blob.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/UpdateBuilder.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/Order.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/spi/v1/GrpcFirestoreRpc.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/WriteResult.java

* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/collection/LLRBValueNode.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/DocumentChange.java
*
/google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/Transaction.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/SetOptions.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FirestoreRpcFactory.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/DocumentSet.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FieldMask.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/collection/LLRBRedValueNode.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FieldValue.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ServerSideTransaction.java
* /google-cloud-firestore-3-21-1-sources-1-
jar/com/google/cloud/firestore/collection/ImmutableSortedMapIterator.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/collection/RBTreeSortedMap.java
*
/google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/annotation/IgnoreExtraProperties.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/DocumentSnapshot.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/annotation/Exclude.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/collection/ArraySortedMap.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/Watch.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/PlanSummary.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/annotation/ServerTimestamp.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/DocumentReference.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ListenerRegistration.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/collection/ImmutableSortedSet.java
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/google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/collection/ImmutableSortedMap.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/EventListener.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FirestoreFactory.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/collection/LLRBEmptyNode.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ResourcePath.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/Query.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/collection/LLRBNode.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FirestoreException.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/Precondition.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/QuerySnapshot.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/collection/LLRBBlackValueNode.java
*
/google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/Firestore.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/annotation/PropertyName.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/BasePath.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/CustomClassMapper.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/DocumentTransform.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FirestoreOptions.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FieldPath.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FirestoreImpl.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/stub/GrpcFirestoreCallableFactory.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/stub/FirestoreStub.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/package-info.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/FirestoreClient.java
*
/google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/stub/GrpcFirestoreStub.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/stub/HttpJsonFirestoreStub.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/stub/FirestoreStubSettings.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/stub/HttpJsonFirestoreCallableFactory.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/v1/FirestoreSettings.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FirestoreBundle.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/CollectionGroup.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/BulkWriter.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/RateLimiter.java
*
/google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ServerSideTransactionRunner.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/FirestoreRpcContext.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/BulkWriterException.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/BulkWriterOptions.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/BulkCommitBatch.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/QueryPartition.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/BatchWriteResult.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/TraceUtil.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/SilenceableBidiStream.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/AggregateQuery.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/AggregateQuerySnapshot.java
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Found in path(s):
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ReadTimeTransaction.java

* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ExplainMetrics.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ExplainOptions.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ExecutionStats.java
*
/google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/ExplainResults.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/Internal.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/annotation/DocumentId.java
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* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/RecursiveDelete.java
* /google-cloud-firestore-3-21-1-sources-1-jar/com/google/cloud/firestore/BulkWriterOperation.java

1.187 grpc-xds 1.62.2

1.187.1 Available under license :

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1.188 bcprov-jdk18on 1.79

1.188.1 Available under license :

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public DomainParameters(BigInteger p, BigInteger g, BigInteger q, BigInteger j,

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* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/asn1/x9/DomainParameters.java
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/**
* SPHINCS-256 signer.
*
* This implementation is heavily based on the reference implementation in SUPERCOP, the main difference being the digests used
* for message hashing and tree construction are now configurable (within limits...) and that the implementation produces
* detached signatures.
*
*
* The SPHINCS reference implementation is public domain, as per the statement in the second last paragraph of
* section 1 in https://eprint.iacr.org/2014/795.pdf
*
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/crypto/sphincs/SPHINCS256Signer.java
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/**
* Poly1305 message authentication code, designed by D. J. Bernstein.
*
* Poly1305 computes a 128-bit (16 bytes) authenticator, using a 128 bit nonce and a 256 bit key
* consisting of a 128 bit key applied to an underlying cipher, and a 128 bit key (with 106
* effective key bits) used in the authenticator.
*
* The polynomial calculation in this implementation is adapted from the public domain <a
* href="https://github.com/floodyberry/poly1305-donna">poly1305-donna-unrolled C implementation
* by Andrew M (@floodyberry).

```
* @see Poly1305KeyGenerator
*/
```

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/macs/Poly1305.java
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```
/**
   * Magic value for proprietary OpenSSH private key.
   **/
```

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/util/OpenSSHPrivateKeyUtil.java
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```
/**
* An implementation of <a href="https://tools.ietf.org/html/rfc7253">RFC 7253 on The OCB
```

```
* Authenticated-Encryption Algorithm</a>. For those still concerned about the original patents
* around this, please see:
* <p>
* https://mailarchive.ietf.org/arch/msg/cfrg/qLTveWOdTJcLn4HP3ev-vrj05Vg/
* </p>
* Text reproduced below.
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*
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* While I have been telling people this for quite some time, I don't
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* </blockquote>
*/
```

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/crypto/modes/OCBBlockCipher.java
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```
/**
* Contains the polynomial classes used in the NTRU round 3 algorithm.
*
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
* released under CC0-1.0 license.
* </p>
*
* <p><a href="https://csrc.nist.gov/CSRC/media/Projects/post-quantum-cryptography/documents/round-3/submissions/NTRU-Round3.zip">NIST submission files</a></p>
* <p><a href="https://github.com/jschanck/ntru/blob/master/LICENSE">License of reference implementation</a></p>
*/
```

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/math/ntru/package-info.java
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```
/**
* The NTRU algorithm based on the round 3 submission of the NIST post-quantum cryptography. For the old NTRU, see
* {@link org.bouncycastle.pqc.legacy.crypto.ntru}.
*
* <p>
* This implementation is based on the C reference implementation submitted for the round 3 NIST PQC competition,
```

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*
*
* NIST submission files
* License of reference implementation
*
* @see NIST round 3 PQC submissions page
* @see NTRU website
* @see NTRU specification
*/

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/crypto/ntru/package-info.java
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// now keep space is free to use

Found in path(s):
* /bcprov-jdk18on-1-79-sources-jar/org/bouncycastle/pqc/legacy/crypto/gmss/GMSSPrivateKeyParameters.java

1.189 commons-pool 2.12.1

1.189.1 Available under license :

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1.190 snake-yaml 2.4

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* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/TagTuple.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactConstructor.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/parser/ParserException.java
*
/snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/constructor/ConstructorException.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/resolver/ResolverTuple.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/parser/Parser.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/ValueToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/Token.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/emitter/EmitterState.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/scanner/Constant.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/util/PlatformFeatureDetector.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/util/ArrayStack.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/Event.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/FlowEntryToken.java

* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/AliasToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/NodeEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingStartToken.java
*
 /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/constructor/Construct.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/MappingStartEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/nodes/CollectionNode.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/reader/ReaderException.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/DocumentEndEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/comments/CommentLine.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/composer/Composer.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/scanner/Scanner.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/BlockSequenceStartToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/error/Mark.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/nodes/SequenceNode.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/resolver/Resolver.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/KeyToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/serializer/Serializer.java
*
 /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/introspector/PropertySubstitute.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/CollectionStartEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/util/UriEncoder.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/PackageCompactConstructor.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/reader/StreamReader.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/error/MarkedYAMLException.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/parser/VersionTagsTuple.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/ScalarEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/inspector/TagInspector.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/internal/Logger.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/BlockMappingStartToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/scanner/ScannerException.java
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 /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/CommentToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/util/MergeUtils.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/constructor/DuplicateKeyException.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/comments/CommentType.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/DumperOptions.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/AliasEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/FlowMappingEndToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/ScalarToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/introspector/Property.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/DocumentEndToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/nodes/NodeId.java
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* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/MappingEndEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
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/snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/inspector/UnTrustedTagInspector.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/scanner/SimpleKey.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/StreamEndEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/DirectiveToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/nodes/Tag.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/representer/BaseRepresenter.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/BlockEntryToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/AnchorToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceEndToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/parser/ParserImpl.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/TypeDescription.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/introspector/FieldProperty.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/constructor/SafeConstructor.java
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/snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/introspector/MethodProperty.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/error/YAMLException.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/constructor/BaseConstructor.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/emitter/Emitter.java
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* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/composer/ComposerException.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/DocumentStartToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/util/EnumUtils.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/constructor/Constructor.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/env/EnvScalarConstructor.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/introspector/BeanAccess.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/introspector/GenericProperty.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/serializer/SerializerException.java
*
/snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/nodes/MappingNode.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/CollectionEndEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/extensions/compactnotation/CompactData.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/SequenceStartEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/representer/JsonRepresenter.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/nodes/ScalarNode.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/emitter/Emitable.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/StreamEndToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/emitter/EmitterException.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/LoaderOptions.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/constructor/AbstractConstruct.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/scanner/ScannerImpl.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/BlockEndToken.java
*
/snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/ImplicitTuple.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/nodes/Node.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/CommentEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/emitter/ScalarAnalysis.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/FlowSequenceStartToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/comments/CommentEventsCollector.java

* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/error/MissingEnvironmentVariableException.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/representer/Represent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/reader/UnicodeReader.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/introspector/PropertyUtils.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/nodes/NodeTuple.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/StreamStartToken.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/util/ArrayUtils.java
*
/snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/SequenceEndEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/parser/Production.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/representer/SafeRepresenter.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/StreamStartEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/representer/Representer.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/Yaml.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/events/DocumentStartEvent.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/introspector/MissingProperty.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/util/Tuple.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/constructor/CustomClassLoaderConstructor.java
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jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/PercentEscaper.java
* /snakeyaml-2-4-sources-
jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/UnicodeEscaper.java
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/external/com/google/gdata/util/common/base/Escaper.java

1.191 jmustache 1.16

1.191.1 Available under license :

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1.192 jul-to-slf4j 2.0.17

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1.193 logback-core 1.5.18

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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/SiftModelHandler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/SiftingAppenderBase.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/RandomUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/FileTestUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ConfigurationEventListener.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/StringListAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/TeeOutputStream.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/NPEAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/FileToBufferUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/SimpleInvocationGate.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/DelayingListAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ConfigurationEvent.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/MockInitialContext.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/CoreTestConstants.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/EnvUtilForTests.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/TrivialStatusListener.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/GenericXMLConfigurator.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/TimeBasedArchiveRemover.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/ExecutorServiceUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ImplicitModelDataForComplexProperty.java
*
 /logback-core-1-5-18-sources-
jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFileNamingAndTriggeringPolicy.java
* /logback-core-1-5-18-sources-
jar/ch/qos/logback/core/rolling/DefaultTimeBasedFileNamingAndTriggeringPolicy.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/util/ParentTag_Tag_Class_Tuple.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/ComponentModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/conditional/ThenModelHandler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/ImportModel.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/DefineModelHandler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/NOPModelHandler.java
* /logback-core-1-5-18-sources-
jar/ch/qos/logback/core/model/processor/SequenceNumberGeneratorModelHandler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/ShutdownHookModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/conditional/ThenAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/AppenderRefDependencyAnalyser.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/StatusListenerModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/recovery/RecoveryListener.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/HardenedObjectInputStream.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/conditional/IfAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/JoranConfiguratorBase.java

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/logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/conditional/ElseAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicy.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/EventEvaluatorModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/sanity/SanityChecker.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/DefineModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ImplicitModelAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/SequenceNumberGeneratorModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/ShutdownHookModelHandler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/conditional/IfModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/SiftModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/ModelConstants.java
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/logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/InsertFromJNDIModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/conditional/IfModelHandler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/BaseModelAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/conditional/ElseModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/Model.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/ProcessingPhase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/ModelHandlerFactoryMethod.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ErrorCodes.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/PhaseIndicator.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/conditional/ElseModelHandler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/RefContainerDependencyAnalyser.java
*
/logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/NamedModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/TimeBasedRollingPolicy.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/ModelInterpretationContext.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/AppenderModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/DependencyDefinition.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/util/TagUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/TimestampModelHandler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/TimestampModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/ImplicitModel.java
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*/

Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedFNATP.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/IncludeModelHandler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/MD5Util.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/LengthCounterBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/ConversionRuleModelHandler.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/RunnableWithCounterAndDone.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/util/PropertyModelHandlerHelper.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ResourceAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/ConversionRuleModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/ModelUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/util/VariableSubstitutionsHelper.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/util/AggregationAssessor.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/AbstractMultiThreadedHarness.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/ResourceModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ContextAwarePropertyContainer.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/HttpUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/StringUtil.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/ConverterSupplierByClassName.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/ResourceHandlerBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/LengthCounter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/StatusPrinter2.java
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Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/NamedComponentModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/AppenderRefModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/AppenderModelHandler.java
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```
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```

Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/sanity/AppenderWithinAppenderSanityChecker.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/DefaultProcessor.java
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```
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* as published by the Free Software Foundation.
*/
```

Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/helpers/CyclicBuffer.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/PropertySetterException.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/BoldWhiteCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/AbstractComponentTracker.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/StatusListenerAction.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/LocationUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/parser/TokenStream.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/SSLNestedComponentRegistryRules.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/SMTPAppenderBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/SocketConnector.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/read/ListAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/ArchiveRemover.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/AutoFlushingObjectWriter.java

* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/html/HTMLLayoutBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/subst/Parser.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/Compressor.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/SyslogConstants.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/helpers/NOPAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/hook/ShutdownHookBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/RollingPolicyBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/SystemInfo.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/boolex/EventEvaluator.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/HostClassAndPropertyDouble.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/PreSerializationTransformer.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLServerSocketFactory.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/DynamicConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/JoranException.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/filter/AbstractMatcherFilter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/SSL.java
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 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/BoldBlueCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/ElementSelector.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/KeyStoreFactoryBean.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/SiftAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/boolex/EvaluationException.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/TriggeringPolicyBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/ErrorStatus.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/FormattingConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ComponentTracker.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/util/IEscapeUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/IncompatibleClassException.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/ConsoleTarget.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/OptionHelper.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/DefaultSocketConnector.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/TimestampAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/parser/OptionTokenizer.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ActionUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/CharSequenceState.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/parser/Parser.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/PeriodicityType.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ScanException.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/RollingPolicy.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/SequenceNumberGeneratorAction.java
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 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/ConfigurableSSLSocketFactory.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/UnsynchronizedAppenderBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/GreenCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/PropertyDefinerBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverStreamClient.java

* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/LogbackException.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/AppenderRefAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/AppenderFactory.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/AbstractSocketAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/subst/Node.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/CoreConstants.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/InfoStatus.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/boolex/Matcher.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/LogbackLock.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/Duration.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/SpacePadder.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/ClientVisitor.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverServerListener.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/BlueCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/parser/Token.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/AbstractServerSocketAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/ANSIConstants.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/helpers/Transform.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ImplicitModelData.java
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 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/SaxEventInterpretationContext.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/subst/Token.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/BoldCyanCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ContextAwareBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/MagentaCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/parser/FormattingNode.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/YellowCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/FormatInfo.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverClient.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/RollingCalendar.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/QueueFactory.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/PropertyContainer.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/RolloverFailure.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/Converter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/ActionException.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ContextAware.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/NoAutoStartUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/node/ComponentNode.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/parser/SimpleKeywordNode.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/subst/NodeToStringTransformer.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/LifeCycle.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/Context.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ObjectWriterFactory.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/AbstractSSLSocketAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/BoldGreenCompositeConverter.java

* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/PatternLayoutBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/StatusListener.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/WarnStatus.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ShutdownHookAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/SiftProcessor.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/LayoutBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/Status.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/ContextUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/SyslogOutputStream.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/hook/DefaultShutdownHook.java
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/logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ObjectWriter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/AsyncAppenderBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/TriggeringPolicy.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/BasicStatusManager.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/FileStoreUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/filter/EvaluatorFilter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/hook/ShutdownHook.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/ConsoleAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/AppenderTracker.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/OnErrorConsoleStatusListener.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/GrayCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/FilterAttachableImpl.java
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/logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/util/AsIsEscapeUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/SaxEventInterpreter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/RenameUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/TokenConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/DefaultClass.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/FileAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/AppenderFactoryUsingSiftModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/DefinePropertyAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/StatusBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/encoder/EchoEncoder.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/filter/Filter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/SSLConfigurableSocket.java
*
/logback-core-1-5-18-sources-jar/ch/qos/logback/core/encoder/EncoderBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/recovery/ResilientSyslogOutputStream.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/property/FileExistsPropertyDefiner.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ImcplicitActionDataForBasicProperty.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/event/BodyEvent.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/SimpleRuleStore.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/CyanCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/FileFilterUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/LiteralConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/ForegroundCompositeConverterBase.java
*

/logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/IncludeAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/AppenderAttachableImpl.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/TrustManagerFactoryFactoryBean.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/util/AlmostAsIsEscapeUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/Appender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/CyclicBufferTracker.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/parser/CompositeNode.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/util/StringToObjectConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/DatePatternToRegexUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/ViewStatusMessagesServletBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/event/EndEvent.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/CompositeConverter.java
*
/logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/NewRuleAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/LifeCycleManager.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/CharSequenceToRegexMapper.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/helpers/ThrowableToStringArray.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/JoranConstants.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/util/RegularEscapeUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/html/NOPThrowableRenderer.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/property/ResourceExistsPropertyDefiner.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/MonoTypedConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/SSLParametersConfiguration.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/CachingDateFormatter.java
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/logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/SSLConfigurable.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/BoldYellowCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/SizeAndTimeBasedRollingPolicy.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/read/CyclicBufferAppender.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/StatusListenerConfigHelper.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/parser/Compiler.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/util/PropertySetter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/PatternLayoutEncoderBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/StringCollectionUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ImportAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/event/SaxEvent.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ContextAwareImpl.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/encoder/NonClosableInputStream.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/event/StartEvent.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/SSLServerSocketAppenderBase.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/DefaultDiscriminator.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/ReplacingCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/DeferredProcessingAware.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/SecureRandomFactoryBean.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/EventPlayer.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/FilterReply.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/recovery/ResilientOutputStreamBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/ContextBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/PostCompileProcessor.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/JNDIUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/StatusListenerAsList.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/RuleStore.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/boolex/EventEvaluatorBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/Loader.java
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 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/Action.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/IntegerTokenConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/WhiteCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/LoginAuthenticator.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/IdentityCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/ServerRunner.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/subst/Tokenizer.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/BlackCompositeConverter.java

* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ConversionRuleAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/FileUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/DefaultInvocationGate.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/html/IThrowableRenderer.java
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 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/util/RestrictedEscapeUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/spi/DefaultNestedComponentRegistry.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/encoder/Encoder.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/ConcurrentServerRunner.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/EventEvaluatorAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/CompressionMode.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/DelayStrategy.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/recovery/RecoveryCoordinator.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/RemoteReceiverServerRunner.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/StatusManager.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/FilterAttachable.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/conditional/Condition.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/PreconditionValidator.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/DateTokenConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/server/ServerListener.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/SizeBasedTriggeringPolicy.java
* /logback-core-1-5-18-sources-
jar/ch/qos/logback/core/rolling/TimeBasedFileNamingAndTriggeringPolicyBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/encoder/LayoutWrappingEncoder.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/BoldRedCompositeConverter.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/util/ConfigurationWatchListUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/FileNamePattern.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/layout/EchoLayout.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/recovery/ResilientFileOutputStream.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/Discriminator.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/encoder/ByteArrayUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/ConverterUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ParamAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/KeyManagerFactoryFactoryBean.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/net/ssl/SSLConfiguration.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/CloseUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/conditional/PropertyWrapperForScripts.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/NopStatusListener.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/AbstractDiscriminator.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/TimeUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/ContextPropertyAction.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/conditional/PropertyEvalScriptBuilder.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/XZCompressionStrategy.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/GZCompressionStrategy.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/CompressionStrategy.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/CompressionStrategyBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/ZipCompressionStrategy.java

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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/DummyEncoder.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/SerializeModelModel.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/ModelClassToModelHandlerLinkerBase.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/joran/action/SerializeModelAction.java
*
 /logback-core-1-5-18-sources-jar/ch/qos/logback/core/encoder/JsonEscapeUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/SerializeModelModelHandler.java

1.194 jcl-over-slf4j 2.0.17

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1.195 marketplacemetering 2.27.21

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1.196 sshd-netty 2.11.0

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* /gson-2-13-1-sources-jar/com/google/gson/stream/package-info.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/reflect/ReflectionHelper.java
* /gson-2-13-1-sources-jar/com/google/gson/ToNumberStrategy.java
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* /gson-2-13-1-sources-jar/com/google/gson/internal/bind/NumberTypeAdapter.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/sql/SqlTypesSupport.java
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* /gson-2-13-1-sources-jar/com/google/gson/internal/ReflectionAccessFilterHelper.java
* /gson-2-13-1-sources-jar/com/google/gson/ReflectionAccessFilter.java
* /gson-2-13-1-sources-jar/com/google/gson/FormattingStyle.java
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* /gson-2-13-1-sources-jar/com/google/gson/JsonStreamParser.java
* /gson-2-13-1-sources-jar/com/google/gson/FieldAttributes.java
* /gson-2-13-1-sources-jar/com/google/gson/JsonParser.java
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* /gson-2-13-1-sources-jar/com/google/gson/ExclusionStrategy.java
* /gson-2-13-1-sources-jar/com/google/gson/JsonDeserializationContext.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/GsonPreconditions.java
* /gson-2-13-1-sources-jar/com/google/gson/JsonElement.java
*
 /gson-2-13-1-sources-jar/com/google/gson/annotations/package-info.java
* /gson-2-13-1-sources-jar/com/google/gson/annotations/SerializedName.java
* /gson-2-13-1-sources-jar/com/google/gson/JsonSerializer.java
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* /gson-2-13-1-sources-jar/com/google/gson/GsonBuilder.java
* /gson-2-13-1-sources-jar/com/google/gson/JsonSerializationContext.java
* /gson-2-13-1-sources-jar/com/google/gson/package-info.java
* /gson-2-13-1-sources-jar/com/google/gson/annotations/Until.java
* /gson-2-13-1-sources-jar/com/google/gson/JsonIOException.java
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* /gson-2-13-1-sources-jar/com/google/gson/JsonDeserializer.java
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* /gson-2-13-1-sources-jar/com/google/gson/InstanceCreator.java
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* /gson-2-13-1-sources-jar/com/google/gson/FieldNamingStrategy.java
* /gson-2-13-1-sources-jar/com/google/gson/JsonArray.java
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* /gson-2-13-1-sources-jar/com/google/gson/internal/bind/DefaultDateTypeAdapter.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/Excluder.java
* /gson-2-13-1-sources-jar/com/google/gson/JsonParseException.java
* /gson-2-13-1-sources-jar/com/google/gson/JsonNull.java
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* /gson-2-13-1-sources-jar/com/google/gson/stream/MalformedJsonException.java
* /gson-2-13-1-sources-jar/com/google/gson/stream/JsonWriter.java
* /gson-2-13-1-sources-jar/com/google/gson/stream/JsonToken.java
* /gson-2-13-1-sources-jar/com/google/gson/stream/JsonReader.java
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* /gson-2-13-1-sources-jar/com/google/gson/JsonSyntaxException.java
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* /gson-2-13-1-sources-jar/com/google/gson/TypeAdapter.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/bind/TypeAdapters.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
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 /gson-2-13-1-sources-jar/com/google/gson/internal/bind/ObjectTypeAdapter.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/bind/JsonTreeReader.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/bind/ReflectiveTypeAdapterFactory.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/JsonReaderInternalAccess.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/bind/TypeAdapterRuntimeTypeWrapper.java
* /gson-2-13-1-sources-jar/com/google/gson/internal/bind/JsonTreeWriter.java
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* /redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/Token.java
* /redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/IdentityProviderConfig.java
* /redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/RenewalTask.java
* /redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/TokenAuthConfig.java
* /redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/TokenManagerConfig.java

* /redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/AuthXException.java
* /redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/IdentityProvider.java
* /redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/TokenRequestException.java
*
/redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/TokenListener.java
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* /redis-authx-core-0-1-1-beta2-sources-jar/redis/clients/authentication/core/TokenManager.java

1.210 commons-collections 4.5.0

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1.211 commons-csv 1.14.0

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1.212 amqp-client 5.25.0

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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/OAuth2ClientCredentialsGrantCredentialsProvider.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/MetricsCollector.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/TopologyRecoveryRetryHandlerBuilder.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/RetryResult.java

* /amqp-client-5-25-0-sources-jar/com/rabbitmq/tools/jsonrpc/JsonRpcMapper.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/BackoffPolicy.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/SslEngineConfigurators.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/RetryHandler.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/SocketConfigurators.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/WorkPoolFullException.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/tools/jsonrpc/JacksonJsonRpcMapper.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/UnblockedCallback.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/ReturnCallback.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/BlockedCallback.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/ConfirmCallback.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/ConnectionFactoryConfigurator.java
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/amqp-client-5-25-0-sources-jar/com/rabbitmq/client/Delivery.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/RpcWrapper.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/RpcContinuationRpcWrapper.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/ConsumerShutdownSignalCallback.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/CancelCallback.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/DeliverCallback.java
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jar/com/rabbitmq/client/observation/micrometer/DefaultPublishObservationConvention.java
* /amqp-client-5-25-0-sources-
jar/com/rabbitmq/client/observation/micrometer/RabbitMqObservationDocumentation.java
* /amqp-client-5-25-0-sources-
jar/com/rabbitmq/client/observation/micrometer/DefaultDeliverObservationConvention.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/observation/micrometer/DeliverObservationConvention.java
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/amqp-client-5-25-0-sources-jar/com/rabbitmq/client/observation/micrometer/PublishObservationConvention.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/observation/NoOpObservationCollector.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/observation/ObservationCollector.java
* /amqp-client-5-25-0-sources-
jar/com/rabbitmq/client/observation/micrometer/MicrometerObservationCollectorBuilder.java
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jar/com/rabbitmq/client/observation/micrometer/MicrometerObservationCollector.java
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/**
* Micrometer implementation of {@link MetricsCollector}.
* Note transactions are not supported (see {@link MetricsCollector}.
* Micrometer provides out-of-the-box support for report backends like JMX,
* Graphite, Ganglia, Atlas, Datadog, etc. See Micrometer documentation for
* more details.
*
* Note Micrometer requires Java 8 or more, so does this {@link MetricsCollector}.
*
* @see MetricsCollector
* @since 4.3.0
*/

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*/
/*
* Based on org.stringtree.json.JSONWriter, licensed under APL and
* LGPL. We've chosen APL (see above). The original code was written
* by Frank Carver. Tony Garnock-Jones has made many changes to it
* since then.
*/

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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/RecordedExchangeBinding.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/RecordedQueue.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/TrustEverythingTrustManager.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/TopologyRecoveryException.java
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 /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/RecordedExchange.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/DefaultExceptionHandler.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/RecoveryListener.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/AMQConnection.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/QueueRecoveryListener.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/SaslMechanism.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/nio/SocketChannelRegistration.java

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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/CommandAssembler.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/JDKSaslConfig.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/tools/jsonrpc/JsonRpcServer.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/ShutdownSignalException.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/ConsumerWorkService.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/tools/jsonrpc/JsonRpcClient.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/nio/SslEngineByteBufferOutputStream.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/AutorecoveringChannel.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/SocketFrameHandlerFactory.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/ConsumerDispatcher.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/AddressResolver.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/DnsRecordIpAddressResolver.java

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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/RecoveryAwareAMQConnectionFactory.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/DefaultConsumer.java
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* /amqp-client-5-25-0-sources-jar/com/rabbitmq/utility/ValueOrException.java
* /amqp-client-5-25-0-sources-jar/com/rabbitmq/client/impl/recovery/ConsumerRecoveryListener.java
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1.213 spring-retry 2.0.12

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1.214 jctools-core 4.0.5

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Found in path(s):
* /jctools-core-4-0-5-6-jar/META-INF/maven/org.jctools/jctools-core/pom.xml
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Manifest-Version: 1.0
Bnd-LastModified: 1717253512851
Build-Jdk-Spec: 1.8
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: 4.0.5
Created-By: Apache Maven Bundle Plugin 5.1.8
Export-Package: org.jctools.maps;version="4.0.5",org.jctools.util;vers
ion="4.0.5";uses:="sun.misc",org.jctools.queues;version="4.0.5",org.j
ctools.queues.atomic;version="4.0.5";uses:="org.jctools.queues",org.j
ctools.queues.atomic.unpadded;version="4.0.5";uses:="org.jctools.queu
es",org.jctools.queues.unpadded;version="4.0.5";uses:="org.jctools.qu
eues",org.jctools.counters;version="4.0.5"
Import-Package: sun.misc;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
Tool: Bnd-6.3.1.202206071316

Found in path(s):
*
/jctools-core-4-0-5-6-jar/META-INF/MANIFEST.MF

1.215 quartz 2.5.0

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Found in path(s):
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/CounterConfig.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/CounterImpl.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/CounterManager.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/Counter.java
*
/quartz-2-5-0-sources-jar/org/quartz/utils/counter/sampled/SampledRateCounter.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/sampled/TimeStampedCounterValue.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/CircularLossyQueue.java

* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/sampled/SampledCounterImpl.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/sampled/SampledCounterConfig.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/sampled/SampledRateCounterConfig.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/CounterManagerImpl.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/sampled/SampledRateCounterImpl.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/counter/sampled/SampledCounter.java
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Found in path(s):
* /quartz-2-5-0-sources-jar/org/quartz/management/ManagementRESTServiceConfiguration.java
* /quartz-2-5-0-sources-jar/org/quartz/management/ManagementServer.java
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* /quartz-2-5-0-sources-jar/org/quartz/JobBuilder.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/matchers/OrMatcher.java
* /quartz-2-5-0-sources-jar/org/quartz/PersistJobDataAfterExecution.java
*
 /quartz-2-5-0-sources-jar/org/quartz/impl/matchers/NameMatcher.java
* /quartz-2-5-0-sources-jar/org/quartz/Matcher.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/matchers/GroupMatcher.java
* /quartz-2-5-0-sources-jar/org/quartz/TimeOfDay.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/triggers/CalendarIntervalTriggerImpl.java
* /quartz-2-5-0-sources-jar/org/quartz/SchedulerConfigException.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/matchers/KeyMatcher.java
* /quartz-2-5-0-sources-jar/org/quartz/DailyTimeIntervalTrigger.java
* /quartz-2-5-0-sources-jar/org/quartz/JobExecutionException.java
* /quartz-2-5-0-sources-jar/org/quartz/CalendarIntervalScheduleBuilder.java
* /quartz-2-5-0-sources-jar/org/quartz/ListenerManager.java
* /quartz-2-5-0-sources-jar/org/quartz/SimpleScheduleBuilder.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/matchers/AndMatcher.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/MutableTrigger.java
* /quartz-2-5-0-sources-jar/org/quartz/CronScheduleBuilder.java
*
 /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/DailyTimeIntervalTriggerPersistenceDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/matchers/EverythingMatcher.java
* /quartz-2-5-0-sources-jar/org/quartz/ExecuteInJTATransaction.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/triggers/CoreTrigger.java
* /quartz-2-5-0-sources-jar/org/quartz/CalendarIntervalTrigger.java
* /quartz-2-5-0-sources-jar/org/quartz/DailyTimeIntervalScheduleBuilder.java
* /quartz-2-5-0-sources-jar/org/quartz/CronTrigger.java
* /quartz-2-5-0-sources-jar/org/quartz/JobDetail.java
* /quartz-2-5-0-sources-jar/org/quartz/DisallowConcurrentExecution.java
* /quartz-2-5-0-sources-jar/org/quartz/JobExecutionContext.java
* /quartz-2-5-0-sources-jar/org/quartz/JobKey.java
* /quartz-2-5-0-sources-jar/org/quartz/TriggerKey.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/matchers/StringMatcher.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/matchers/NotMatcher.java
* /quartz-2-5-0-sources-jar/org/quartz/ScheduleBuilder.java
*
 /quartz-2-5-0-sources-jar/org/quartz/SimpleTrigger.java
* /quartz-2-5-0-sources-jar/org/quartz/TriggerBuilder.java
* /quartz-2-5-0-sources-jar/org/quartz/CronExpression.java
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* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/LockException.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/SimpleThreadPool.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/triggers/AbstractTrigger.java
*
 /quartz-2-5-0-sources-jar/org/quartz/SchedulerListener.java
* /quartz-2-5-0-sources-jar/org/quartz/core/SchedulerSignalerImpl.java
* /quartz-2-5-0-sources-jar/org/quartz/JobDataMap.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/C3p0PoolingConnectionProvider.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/DriverDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/plugins/xml/XMLSchedulingDataProcessorPlugin.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/ClassLoadHelper.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/SchedulerPlugin.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/SchedulerRepository.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/DBSemaphore.java
* /quartz-2-5-0-sources-jar/org/quartz/plugins/management/ShutdownHookPlugin.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/ThreadContextClassLoadHelper.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/weblogic/WeblogicConnectionProvider.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/InitThreadContextClassLoadHelper.java
*
 /quartz-2-5-0-sources-jar/org/quartz/SchedulerContext.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/FiredTriggerRecord.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/StdRowLockSemaphore.java
* /quartz-2-5-0-sources-jar/org/quartz/SchedulerException.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/StdJDBCConstants.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/triggers/CronTriggerImpl.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/WebLogicDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/TriggerListener.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/DB2v7Delegate.java
* /quartz-2-5-0-sources-jar/org/quartz/plugins/history/LoggingTriggerHistoryPlugin.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/TriggerFiredBundle.java
* /quartz-2-5-0-sources-jar/org/quartz/ee/jmx/jboss/QuartzServiceMBean.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/JobExecutionContextImpl.java
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* /quartz-2-5-0-sources-jar/org/quartz/simpl/RAMJobStore.java

* /quartz-2-5-0-sources-jar/org/quartz/simpl/SimpleJobFactory.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/MSSQLDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/JobPersistenceException.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/JobStoreSupport.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/QuartzServer.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/InstanceIdGenerator.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/PropertiesParser.java
* /quartz-2-5-0-sources-jar/org/quartz/InterruptableJob.java
* /quartz-2-5-0-sources-jar/org/quartz/ee/jta/JTAAnnotationAwareJobRunShellFactory.java
* /quartz-2-5-0-sources-jar/org/quartz/Job.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/RemoteScheduler.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/TriggerStatus.java
* /quartz-2-5-0-sources-jar/org/quartz/Trigger.java
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 /quartz-2-5-0-sources-jar/org/quartz/impl/RemoteMBeanScheduler.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/StdJobRunShellFactory.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/FindbugsSuppressWarnings.java
* /quartz-2-5-0-sources-jar/org/quartz/core/QuartzSchedulerResources.java
* /quartz-2-5-0-sources-jar/org/quartz/plugins/xml/FileScanListener.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/PostgreSQLDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/ee/jmx/jboss/QuartzService.java
* /quartz-2-5-0-sources-jar/org/quartz/ee/jta/UserTransactionHelper.java
* /quartz-2-5-0-sources-jar/org/quartz/core/RemotableQuartzScheduler.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/Constants.java
* /quartz-2-5-0-sources-jar/org/quartz/ee/jta/JTAJobRunShell.java
* /quartz-2-5-0-sources-jar/org/quartz/xml/XMLSchedulingDataProcessor.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/HostnameInstanceIdGenerator.java
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* /quartz-2-5-0-sources-jar/org/quartz/ObjectAlreadyExistsException.java
* /quartz-2-5-0-sources-jar/org/quartz/JobListener.java
* /quartz-2-5-0-sources-jar/org/quartz/core/QuartzScheduler.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/DB2v6Delegate.java
* /quartz-2-5-0-sources-jar/org/quartz/helpers/VersionPrinter.java
* /quartz-2-5-0-sources-jar/org/quartz/xml/ValidationException.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/SimpleSemaphore.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/InvalidConfigurationException.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/oracle/OracleDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/UnableToInterruptJobException.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/DB2v8Delegate.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/PropertySettingJobFactory.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/SybaseDelegate.java
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 /quartz-2-5-0-sources-jar/org/quartz/impl/triggers/DailyTimeIntervalTriggerImpl.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/SimpleTimeBroker.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/CascadingClassLoadHelper.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/Key.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/CUBRIDDelegate.java

* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/JobStoreCMT.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/calendar/AnnualCalendar.java
* /quartz-2-5-0-sources-jar/org/quartz/plugins/history/LoggingJobHistoryPlugin.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/SimpleInstanceIdGenerator.java
* /quartz-2-5-0-sources-jar/org/quartz/SchedulerFactory.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/StdJDBCDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/HSQLDBDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/plugins/xml/FileScanJob.java
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* /quartz-2-5-0-sources-jar/org/quartz/ee/jta/JTAJobRunShellFactory.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/JTANonClusteredSemaphore.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/Util.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/StdScheduler.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/LoadingLoaderClassLoadHelper.java
* /quartz-2-5-0-sources-jar/org/quartz/TriggerUtils.java
* /quartz-2-5-0-sources-jar/org/quartz/simpl/ZeroSizeThreadPool.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/TimeBroker.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/JNDIConnectionProvider.java
* /quartz-2-5-0-sources-jar/org/quartz/SchedulerMetaData.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/PointbaseDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/ConnectionProvider.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/DBConnectionManager.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/NoSuchDelegateException.java
*
 /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/JobStoreTX.java
* /quartz-2-5-0-sources-jar/org/quartz/Scheduler.java
* /quartz-2-5-0-sources-jar/org/quartz/StatefulJob.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/oracle/weblogic/WebLogicOracleDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/Calendar.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/JobDetailImpl.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/HikariCpPoolingConnectionProvider.java
* /quartz-2-5-0-sources-jar/org/quartz/core/JobRunShellFactory.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/calendar/HolidayCalendar.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/SchedulerSignaler.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/JobFactory.java
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* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/UpdateLockRowSemaphore.java
*
 /quartz-2-5-0-sources-jar/org/quartz/listeners/BroadcastJobListener.java
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* /quartz-2-5-0-sources-jar/org/quartz/listeners/JobListenerSupport.java
*
 /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/AttributeRestoringConnectionInvocationHandler.java
* /quartz-2-5-0-sources-jar/org/quartz/listeners/SchedulerListenerSupport.java
* /quartz-2-5-0-sources-jar/org/quartz/listeners/TriggerListenerSupport.java
* /quartz-2-5-0-sources-jar/org/quartz/ee/jmx/jboss/JBoss4RMIRemoteMBeanScheduler.java
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* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/SimplePropertiesTriggerProperties.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/SchedulerDetailsSetter.java
*
 /quartz-2-5-0-sources-jar/org/quartz/utils/ClassUtils.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/CronTriggerPersistenceDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/CalendarIntervalTriggerPersistenceDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/jdbcjobstore/SimpleTriggerPersistenceDelegate.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/DefaultThreadExecutor.java
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*
 /quartz-2-5-0-sources-jar/org/quartz/utils/DirtyFlagMap.java
* /quartz-2-5-0-sources-jar/org/quartz/ee/servlet/QuartzInitializerServlet.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/DirectSchedulerFactory.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/JobStore.java
* /quartz-2-5-0-sources-jar/org/quartz/DateBuilder.java
* /quartz-2-5-0-sources-jar/org/quartz/core/QuartzSchedulerThread.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/StdSchedulerFactory.java
* /quartz-2-5-0-sources-jar/org/quartz/utils/PoolingConnectionProvider.java
* /quartz-2-5-0-sources-jar/org/quartz/ee/servlet/QuartzInitializerListener.java
* /quartz-2-5-0-sources-jar/org/quartz/impl/calendar/MonthlyCalendar.java
* /quartz-2-5-0-sources-jar/org/quartz/spi/ThreadPool.java

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1.220 springdoc-openapi-starter-common 2.8.9

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1.221 springdoc-openapi-starter-webmvc-ui 2.8.9

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1.222 jedis 6.0.0

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```
// "- 1" because we just did one, but the attemptsLeft counter hasn't been decremented yet
/**
  * Related values should be reset if <code>TRUE</code> is returned.
  *
  * @param attemptsLeft
  * @param consecutiveConnectionFailures
  * @param doneDeadline
  * @return true - if some actions are taken
  * <br /> false - if no actions are taken
  */
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/executors/ClusterCommandExecutor.java
* /jedis-6-0-0-sources-jar/redis/clients/jedis/executors/RetryableCommandExecutor.java
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```
public String clusterSetSlotNode(final int slot, final String nodeId) {
connection.sendCommand(CLUSTER, ClusterKeyword.SETSLOT.getRaw(), toByteArray(slot),
ClusterKeyword.NODE.getRaw(), encode(nodeId));
public String clusterSetSlotMigrating(final int slot, final String nodeId) {
connection.sendCommand(CLUSTER, ClusterKeyword.SETSLOT.getRaw(), toByteArray(slot),
ClusterKeyword.MIGRATING.getRaw(), encode(nodeId));
public String clusterSetSlotImporting(final int slot, final String nodeId) {
connection.sendCommand(CLUSTER, ClusterKeyword.SETSLOT.getRaw(), toByteArray(slot),
ClusterKeyword.IMPORTING.getRaw(), encode(nodeId));
public String clusterSetSlotStable(final int slot) {
connection.sendCommand(CLUSTER, ClusterKeyword.SETSLOT.getRaw(), toByteArray(slot),
ClusterKeyword.STABLE.getRaw());
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/Jedis.java
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GETKEYSINSLOT, SETSLOT, NODE, MIGRATING, IMPORTING, STABLE, FORGET, FLUSHSLOTS,
KEYSLOT,

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/Protocol.java

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```
String clusterSetSlotNode(int slot, String nodeId);
String clusterSetSlotMigrating(int slot, String nodeId);
String clusterSetSlotImporting(int slot, String nodeId);
String clusterSetSlotStable(int slot);
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/commands/ClusterCommands.java
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```
package redis.clients.jedis.timeseries;

import java.util.LinkedHashMap;
import java.util.List;
import java.util.Map;
import java.util.function.Function;
import java.util.stream.Collectors;

import redis.clients.jedis.Builder;
import redis.clients.jedis.BuilderFactory;
import redis.clients.jedis.util.KeyValue;

public final class TimeSeriesBuilderFactory {

 public static final Builder<TSElement> TIMESERIES_ELEMENT = new Builder<TSElement>() {
  @Override
  public TSElement build(Object data) {
    List<Object> list = (List<Object>) data;
    if (list == null || list.isEmpty()) return null;
    return new TSElement(BuilderFactory.LONG.build(list.get(0)), BuilderFactory.DOUBLE.build(list.get(1)));
  }
 };

 public static final Builder<List<TSElement>> TIMESERIES_ELEMENT_LIST = new
Builder<List<TSElement>>() {
  @Override
  public List<TSElement> build(Object data) {
    return ((List<Object>) data).stream().map((pairObject)
 -> (List<Object>) pairObject)
        .map((pairList) -> new TSElement(BuilderFactory.LONG.build(pairList.get(0)),
           BuilderFactory.DOUBLE.build(pairList.get(1))))
        .collect(Collectors.toList());
  }
 };

 public static final Builder<Map<String, TSMRangeElements>> TIMESERIES_MRANGE_RESPONSE
    = new Builder<Map<String, TSMRangeElements>>() {
```

```
  @Override
  public Map<String, TSMRangeElements> build(Object data) {
   return ((List<Object>) data).stream().map((tsObject) -> (List<Object>) tsObject)
       .map((tsList) -> new TSMRangeElements(BuilderFactory.STRING.build(tsList.get(0)),
           BuilderFactory.STRING_MAP_FROM_PAIRS.build(tsList.get(1)),
           TIMESERIES_ELEMENT_LIST.build(tsList.get(2))))
       .collect(Collectors.toMap(TSMRangeElements::getKey, Function.identity(),
           (x, y) -> x, LinkedHashMap::new));
  }
};

public static final Builder<Map<String, TSMRangeElements>> TIMESERIES_MRANGE_RESPONSE_RESP3
    = new Builder<Map<String, TSMRangeElements>>() {
  @Override
  public Map<String, TSMRangeElements> build(Object data) {
   List<KeyValue> dataList = (List<KeyValue>) data;
   Map<String, TSMRangeElements> map = new LinkedHashMap<>(dataList.size() / 2, 1f);
   for (KeyValue kv : dataList) {
    String key = BuilderFactory.STRING.build(kv.getKey());
    List<Object> valueList = (List<Object>) kv.getValue();
    TSMRangeElements elements;
    switch (valueList.size()) {
     case 3:
      List<Object> aggrMapObj = (List<Object>) valueList.get(1);
      KeyValue aggKV = (KeyValue) aggrMapObj.get(0);
      assert "aggregators".equalsIgnoreCase(BuilderFactory.STRING.build(aggKV.getKey()));
      elements = new TSMRangeElements(key,
          BuilderFactory.STRING_MAP.build(valueList.get(0)),
          ((List<Object>) aggKV.getValue()).stream().map(BuilderFactory.STRING::build)

      .map(AggregationType::safeValueOf).collect(Collectors.toList()),
          TIMESERIES_ELEMENT_LIST.build(valueList.get(2)));
      break;
     case 4:
      List<KeyValue> rdcMapObj = (List<KeyValue>) valueList.get(1);
      assert "reducers".equalsIgnoreCase(BuilderFactory.STRING.build(rdcMapObj.get(0).getKey()));
      List<KeyValue> srcMapObj = (List<KeyValue>) valueList.get(2);
      assert "sources".equalsIgnoreCase(BuilderFactory.STRING.build(srcMapObj.get(0).getKey()));
      elements = new TSMRangeElements(key,
          BuilderFactory.STRING_MAP.build(valueList.get(0)),
          BuilderFactory.STRING_LIST.build(rdcMapObj.get(0).getValue()),
          BuilderFactory.STRING_LIST.build(srcMapObj.get(0).getValue()),
          TIMESERIES_ELEMENT_LIST.build(valueList.get(3)));
      break;
     default:
      throw new IllegalStateException();
    }
    map.put(key, elements);
```

```
    }
    return map;
  }
 };

 public static final Builder<Map<String, TSMGetElement>> TIMESERIES_MGET_RESPONSE
    = new Builder<Map<String, TSMGetElement>>() {
  @Override
  public Map<String, TSMGetElement> build(Object data) {
    return ((List<Object>) data).stream().map((tsObject) -> (List<Object>) tsObject)
        .map((tsList) -> new TSMGetElement(BuilderFactory.STRING.build(tsList.get(0)),
            BuilderFactory.STRING_MAP_FROM_PAIRS.build(tsList.get(1)),
            TIMESERIES_ELEMENT.build(tsList.get(2))))
        .collect(Collectors.toMap(TSMGetElement::getKey, Function.identity()));
  }
 };

 public static final Builder<Map<String, TSMGetElement>> TIMESERIES_MGET_RESPONSE_RESP3
    = new Builder<Map<String, TSMGetElement>>() {
  @Override
  public Map<String, TSMGetElement> build(Object data) {
    List<KeyValue> dataList = (List<KeyValue>) data;
    Map<String, TSMGetElement> map = new LinkedHashMap<>(dataList.size());
    for
(KeyValue kv : dataList) {
      String key = BuilderFactory.STRING.build(kv.getKey());
      List<Object> valueList = (List<Object>) kv.getValue();
      TSMGetElement value = new TSMGetElement(key,
          BuilderFactory.STRING_MAP.build(valueList.get(0)),
          TIMESERIES_ELEMENT.build(valueList.get(1)));
      map.put(key, value);
    }
    return map;
  }
 };

 private TimeSeriesBuilderFactory() {
  throw new InstantiationError("Must not instantiate this class");
 }
}
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/timeseries/TimeSeriesBuilderFactory.java
No license file was found, but licenses were detected in source scan.

```
public List<List<Long>> getSlots() {
```

Found in path(s):

* /jedis-6-0-0-sources-jar/redis/clients/jedis/resps/ClusterShardInfo.java
No license file was found, but licenses were detected in source scan.

public void assignSlotsToNode(List<Integer> targetSlots, HostAndPort targetNode) {
for (Integer slot : targetSlots) {
public void assignSlotsToReplicaNode(List<Integer> targetSlots, HostAndPort targetNode) {
for (Integer slot : targetSlots) {
public ConnectionPool getSlotPool(int slot) {
public HostAndPort getSlotNode(int slot) {
public List<ConnectionPool> getSlotReplicaPools(int slot) {

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/JedisClusterInfoCache.java
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try (Connection connection = getConnectionFromSlot(JedisClusterCRC16.getSlot(channels[0]))) {
try (Connection connection = getConnectionFromSlot(JedisClusterCRC16.getSlot(channels[0]))) {

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/JedisCluster.java
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public static int getSlot(String key) {
public static int getSlot(byte[] key) {

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/util/JedisClusterCRC16.java
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public final int getSlot() {

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/exceptions/JedisRedirectionException.java
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package redis.clients.jedis;

import redis.clients.jedis.commands.ProtocolCommand;
import redis.clients.jedis.exceptions.JedisClusterOperationException;
import redis.clients.jedis.util.JedisClusterCRC16;

public class ClusterCommandArguments extends CommandArguments {

 private int commandHashSlot = -1;

 public ClusterCommandArguments(ProtocolCommand command) {
   super(command);
 }

```
public int getCommandHashSlot() {
  return commandHashSlot;
}

@Override
protected CommandArguments processKey(byte[] key) {
  final int hashSlot = JedisClusterCRC16.getSlot(key);
  if (commandHashSlot < 0) {
    commandHashSlot = hashSlot;
  } else if (commandHashSlot != hashSlot) {
    throw new JedisClusterOperationException("Keys must belong to same hashslot.");
  }
  return this;
}

@Override
protected CommandArguments processKey(String key) {
  final int hashSlot = JedisClusterCRC16.getSlot(key);
   if (commandHashSlot < 0) {
    commandHashSlot = hashSlot;
  } else if (commandHashSlot != hashSlot) {
    throw new JedisClusterOperationException("Keys must belong to same hashslot.");
  }
  return this;
 }
}
```

Found in path(s):
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```
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*/
```

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/util/MurmurHash.java
No license file was found, but licenses were detected in source scan.

return slot >= 0 ? cache.getSlotNode(slot) : null;
ConnectionPool connectionPool = cache.getSlotPool(slot);
connectionPool = cache.getSlotPool(slot);
List<ConnectionPool> connectionPools = cache.getSlotReplicaPools(slot);
connectionPools = cache.getSlotReplicaPools(slot);

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/providers/ClusterConnectionProvider.java
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*/

Found in path(s):
* /jedis-6-0-0-sources-jar/redis/clients/jedis/util/RedisInputStream.java

1.223 woodstox 7.1.1

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- jakarta_web-services_client_2_0.xsd
- jsp_3_0.xsd
- jsp_3_1.xsd
- web-app_5_0.xsd
- web-app_6_0.xsd
- web-commonn_5_0.xsd
- web-commonn_6_0.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
- web-fragment_3_1.xsd
- javaee_8.xsd

- web-app_4_0.xsd
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 a public domain javacc grammar
for JSON written by Robert Fischer.
https://github.com/RobertFischer/json-parser

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1.227 spring-framework 6.2.9

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* /spring-core-6-2-9-sources-jar/org/springframework/cglib/reflect/FastClass.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/reflect/FastClassEmitter.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/MethodInterceptorGenerator.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/beans/ImmutableBean.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/FixedValueGenerator.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/LazyLoaderGenerator.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/transform/AbstractClassLoader.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/DispatcherGenerator.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/CallbackFilter.java
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 /spring-core-6-2-9-sources-jar/org/springframework/cglib/reflect/FastMethod.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/core/VisibilityPredicate.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/transform/ClassTransformerChain.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/Proxy.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/core/EmitUtils.java

* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/MixinEmitter.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/core/KeyFactory.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/core/MethodWrapper.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/Mixin.java
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* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/MixinEverythingEmitter.java
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 /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/CallbackHelper.java
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* /spring-core-6-2-9-sources-jar/org/springframework/cglib/core/MethodInfo.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/InterfaceMaker.java
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* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/android/AndroidSerializationInstantiator.java
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* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/basic/DelegatingToExoticInstantiator.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/ObjenesisHelper.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/annotations/Typology.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/SerializationInstantiatorHelper.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/basic/FailingInstantiator.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/basic/NullInstantiator.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/ObjenesisSerializer.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/strategy/PlatformDescription.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/android/Android10Instantiator.java
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/spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/annotations/Instantiator.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/util/UnsafeUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/basic/ObjectStreamClassInstantiator.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/ObjenesisBase.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/ObjenesisException.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/strategy/InstantiatorStrategy.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiator.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/strategy/SingleInstantiatorStrategy.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/android/Android18Instantiator.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/strategy/StdInstantiatorStrategy.java
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/spring-core-6-2-9-sources-jar/org/springframework/objenesis/ObjenesisStd.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/basic/NewInstanceInstantiator.java
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* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/basic/ProxyingInstantiator.java
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* /spring-core-6-2-9-sources-jar/org/springframework/objenesis/instantiator/perc/PercSerializationInstantiator.java
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jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactorySerializationInstantiator.java
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 /spring-core-6-2-9-sources-jar/org/springframework/asm/Opcodes.java
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* /spring-core-6-2-9-sources-jar/org/springframework/asm/SymbolTable.java
* /spring-core-6-2-9-sources-jar/org/springframework/asm/Edge.java
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* /spring-core-6-2-9-sources-jar/org/springframework/asm/MethodWriter.java
* /spring-core-6-2-9-sources-jar/org/springframework/asm/Handler.java
* /spring-core-6-2-9-sources-jar/org/springframework/asm/ClassTooLargeException.java
* /spring-core-6-2-9-sources-jar/org/springframework/asm/ConstantDynamic.java
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* /spring-core-6-2-9-sources-jar/org/springframework/javapoet/ParameterizedTypeName.java
*
 /spring-core-6-2-9-sources-jar/org/springframework/javapoet/TypeSpec.java
* /spring-core-6-2-9-sources-jar/org/springframework/javapoet/TypeVariableName.java
* /spring-core-6-2-9-sources-jar/org/springframework/javapoet/MethodSpec.java
* /spring-core-6-2-9-sources-jar/org/springframework/javapoet/TypeName.java
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* /spring-core-6-2-9-sources-jar/org/springframework/javapoet/ParameterSpec.java
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* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/Dispatcher.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldCallback.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/core/Signature.java
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* /spring-core-6-2-9-sources-jar/org/springframework/cglib/reflect/FastMember.java
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* /spring-core-6-2-9-sources-jar/org/springframework/cglib/core/TinyBitSet.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/transform/FieldVisitorTee.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldFilter.java

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* /spring-core-6-2-9-sources-jar/org/springframework/cglib/core/ObjectSwitchCallback.java
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* /spring-core-6-2-9-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldEnabled.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/util/SorterTemplate.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/transform/impl/UndeclaredThrowableStrategy.java
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* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/Factory.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/proxy/MethodInterceptor.java
No license file was found, but licenses were detected in source scan.

```
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*/
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Found in path(s):

* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/EnumToIntegerConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/WritableResource.java
* /spring-core-6-2-9-sources-jar/org/springframework/lang/Contract.java
*
 /spring-core-6-2-9-sources-jar/org/springframework/util/IdGenerator.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/MemberHint.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/ClassPathResource.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/codec/DataBufferEncoder.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/AnnotatedMethod.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/AbstractFileResolvingResource.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/AbstractEnvironment.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/ResourceLoader.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/GenericConversionService.java
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 /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/RuntimeHints.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/codec/CharSequenceEncoder.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/PooledDataBuffer.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/NativeDetector.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/classreading/SimpleAnnotationMetadata.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/task/support/CompositeTaskDecorator.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/TypeDescriptor.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/backoff/BackOffExecution.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/PlaceholderParser.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/converter/Converter.java
*
 /spring-core-6-2-9-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/UrlResource.java

* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/AnnotationsScanner.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/MultiValueMapAdapter.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/nativex/ReflectionHintsWriter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/codec/EncodingException.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/nativex/BasicJsonWriter.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/PatternMatchUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/comparator/NullSafeComparator.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/StaxSource.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/ResourceHintsExtensions.kt
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/spring-core-6-2-9-sources-jar/org/springframework/core/io/PathResource.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/predicate/ReflectionHintsPredicates.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/function/ThrowingBiFunction.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/TransformerUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/codec/Decoder.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/StringToCollectionConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/CompositeIterator.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/support/PropertySourceDescriptor.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/MergedAnnotations.java
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/spring-core-6-2-9-sources-jar/org/springframework/asm/SpringAsmInfo.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/unit/DataSize.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/ConversionFailedException.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/JettyDataBuffer.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/annotation/RegisterReflectionForBinding.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/ConversionException.java
* /spring-core-6-2-9-sources-jar/org/springframework/lang/NonNullApi.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/log/LogFormatUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/ByteBufferConverter.java
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/spring-core-6-2-9-sources-jar/org/springframework/core/env/ConfigurablePropertyResolver.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/NestedCheckedException.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/PropertyResolverExtensions.kt
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* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/ConditionalHint.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
* /spring-core-6-2-9-sources-
jar/org/springframework/core/convert/support/ZonedDateTimeToCalendarConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/converter/ConditionalGenericConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/AttributeAccessor.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/StringToBooleanConverter.java
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/spring-core-6-2-9-sources-jar/org/springframework/core/annotation/OrderUtils.java
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* /spring-core-6-2-9-sources-jar/org/springframework/util/RouteMatcher.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/PriorityOrdered.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/serializer/DefaultDeserializer.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/ResourceUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/ConversionService.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/SimpleIdGenerator.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/DataBufferOutputStream.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/concurrent/ListenableFutureCallbackRegistry.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
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* /spring-core-6-2-9-sources-jar/org/springframework/aot/generate/GeneratedClasses.java
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* /spring-core-6-2-9-sources-jar/org/springframework/util/FilteredSet.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/StandardClassMetadata.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/DefaultDataBuffer.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/concurrent/FailureCallback.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/PropertyResolver.java
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* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/BindingReflectionHintsRegistrar.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/ConversionUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
*
/spring-core-6-2-9-sources-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/UnmodifiableMultiValueMap.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/StaxResult.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/AnnotationMetadata.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/MissingMergedAnnotation.java
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* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/support/ClassHintUtils.java
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* /spring-core-6-2-9-sources-jar/org/springframework/util/DefaultPropertiesPersister.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/generate/GeneratedMethod.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/Environment.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/nativex/FileNativeConfigurationWriter.java
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* /spring-core-6-2-9-sources-
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/spring-core-6-2-9-sources-jar/org/springframework/util/xml/DomUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/generate/GeneratedTypeReference.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/CompositeSet.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/Profiles.java
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* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/StaxEventHandler.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/concurrent/SuccessCallback.java
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* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/SerializationHints.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/concurrent/SettableListenableFuture.java
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/spring-core-6-2-9-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/Netty5DataBuffer.java
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* /spring-core-6-2-9-sources-jar/org/springframework/aot/generate/DefaultGenerationContext.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/ResolvableType.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/MethodClassKey.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/PlaceholderResolutionException.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/StandardEnvironment.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/ExceptionDepthComparator.java

* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
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 /spring-core-6-2-9-sources-jar/org/springframework/aot/AotDetector.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/nativex/ResourceHintsWriter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/ResourceEditor.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/TypeHintExtensions.kt
* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/SimpleTypeReference.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/SerializableTypeWrapper.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/log/CompositeLog.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/Property.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/serializer/support/SerializationFailedException.java
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 /spring-core-6-2-9-sources-jar/org/springframework/core/GenericTypeResolver.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/ExecutableHint.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/PropertySourcesPropertyResolver.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/MultiValueMap.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/generate/AccessControl.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/DigestUtils.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/Order.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/ObjectToOptionalConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/FilteredMap.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/CommonsLogWriter.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/SerializationHintsExtensions.kt
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* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/DataBufferLimitException.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/MethodParameter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/support/ResourceRegion.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/serializer/DefaultSerializer.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/Resource.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/task/SimpleAsyncTaskExecutor.java
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* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/FieldHint.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/ContextResource.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/classreading/MergedAnnotationReadingVisitor.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/annotation/Reflective.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/NestedRuntimeException.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/TypeUtils.java

* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/SimpleNamespaceContext.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/SynthesizedMergedAnnotationInvocationHandler.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/codec/CharBufferDecoder.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/MemberCategory.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/DecoratingProxy.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/LimitedDataBufferList.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/task/VirtualThreadTaskExecutor.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/xml/StaxStreamXMLReader.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/concurrent/ListenableFutureAdapter.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/nativex/substitution/Target_Introspector.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/NumberUtils.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/PropertiesPersister.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/PackagesAnnotationFilter.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/io/AbstractResource.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/TouchableDataBuffer.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
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* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/ZoneIdToTimeZoneConverter.java

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* /spring-core-6-2-9-sources-jar/org/springframework/core/style/DefaultValueStyler.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/SimpleCommandLineArgsParser.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/NettyDataBuffer.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/task/support/ExecutorServiceAdapter.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/StopWatch.java
*
 /spring-core-6-2-9-sources-jar/org/springframework/util/xml/StaxStreamHandler.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/CommandLineArgs.java
* /spring-core-6-2-9-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/env/CommandLinePropertySource.java

* /spring-core-6-2-9-sources-jar/org/springframework/core/log/LogDelegateFactory.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/log/LogMessage.java
* /spring-core-6-2-9-sources-jar/org/springframework/util/comparator/InstanceComparator.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/ReactiveAdapterRegistry.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/support/PropertySourceProcessor.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/ValueExtractor.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/annotation/MergedAnnotationsCollection.java
*
/spring-core-6-2-9-sources-jar/org/springframework/aot/generate/MethodReference.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/SmartClassLoader.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
* /spring-core-6-2-9-sources-
jar/org/springframework/aot/generate/UnsupportedTypeValueCodeGenerationException.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/ResourceBundleHint.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/classreading/MetadataReader.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
* /spring-core-6-2-9-sources-jar/org/springframework/aot/hint/support/SpringPropertiesRuntimeHints.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/codec/AbstractDataBufferDecoder.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/buffer/DataBufferInputStream.java
*
/spring-core-6-2-9-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/task/VirtualThreadDelegate.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/NamedThreadLocal.java
* /spring-core-6-2-9-sources-jar/org/springframework/core/io/VfsResource.java
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Found in path(s):
* /spring-core-6-2-9-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderStartupStep.java

1.228 spring-data-jpa 3.5.2

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1.229 spring-tx 6.2.9

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Found in path(s):
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/reactive/AbstractReactiveTransactionManager.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/TransientDataAccessResourceException.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorExtensions.kt
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorImpl.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/TransactionStatus.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/RecoverableDataAccessException.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/ReactiveTransactionManager.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/TypeMismatchDataAccessException.java

* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/reactive/TransactionSynchronizationManager.java
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 /spring-tx-6-2-9-sources-jar/org/springframework/dao/support/PersistenceExceptionTranslationInterceptor.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/StaticTransactionDefinition.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/jta/TransactionFactory.java
* /spring-tx-6-2-9-sources-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/dao/PermissionDeniedDataAccessException.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/support/TransactionCallback.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/dao/CannotSerializeTransactionException.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/TransactionUsageException.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/NoTransactionException.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/support/SmartTransactionObject.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/support/DaoSupport.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/event/TransactionPhase.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/OptimisticLockingFailureException.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/annotation/TransactionAnnotationParser.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/support/ResourceTransactionDefinition.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/CannotCreateTransactionException.java
* /spring-tx-6-2-9-sources-
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/interceptor/TransactionalProxy.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/SavepointManager.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/config/TxNamespaceHandler.java
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/spring-tx-6-2-9-sources-jar/org/springframework/transaction/ReactiveTransaction.java
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jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
* /spring-tx-6-2-9-sources-
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java
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jar/org/springframework/transaction/annotation/RestrictedTransactionalEventListenerFactory.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/support/SimpleTransactionStatus.java
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/spring-tx-6-2-9-sources-jar/org/springframework/dao/CannotAcquireLockException.java
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* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/event/TransactionalApplicationListener.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/DataAccessException.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/support/TransactionSynchronization.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/event/TransactionalEventListener.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/DataAccessResourceFailureException.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/reactive/TransactionContext.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/TransactionExecution.java
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/spring-tx-6-2-9-sources-jar/org/springframework/transaction/annotation/EnableTransactionManagement.java
* /spring-tx-6-2-9-sources-jar/org/springframework/transaction/reactive/TransactionCallback.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/ConcurrencyFailureException.java
* /spring-tx-6-2-9-sources-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
* /spring-tx-6-2-9-sources-
jar/org/springframework/transaction/annotation/TransactionBeanRegistrationAotProcessor.java
* /spring-tx-6-2-9-sources-jar/org/springframework/dao/CleanupFailureDataAccessException.java

1.230 spring-jdbc 6.2.9

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

Found in path(s):
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/support/SQLExceptionTranslator.java

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```
/**
* The classes in this package make JDBC easier to use and
* reduce the likelihood of common errors. In particular, they:
* <ul>
* <li>Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* <li>Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* <li>Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
* </ul>
*
* <p>This package and related packages are discussed in Chapter 9 of
* <a href="https://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and
Development</a>
* by Rod Johnson (Wrox, 2002).
*/
```

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```

Found in path(s):
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSourceExtensions.kt
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```
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```

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Found in path(s):
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/core/SqlReturnType.java
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* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
*
 /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/object/UpdatableSqlQuery.java
* /spring-jdbc-6-2-9-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/object/SqlCall.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/core/SqlTypeValue.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
* /spring-jdbc-6-2-9-sources-
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* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurers.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
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* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/core/metadata/GenericTableMetaDataProvider.java
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java
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*/
/**
  * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
  * Will not need to do anything if using PreparedStatement's standard methods,
  * but might be necessary to free database resources if using proprietary means.
  * <p><b>NOTE</b>: Needs to be invoked after the involved
 PreparedStatements have
  * been executed or the affected O/R mapping sessions have been flushed.
  * Otherwise, the database resources for the temporary BLOBs might stay allocated.
  */
```

Found in path(s):
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/support/lob/LobCreator.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)
  */
```

Found in path(s):
* /spring-jdbc-6-2-9-sources-jar/org/springframework/jdbc/core/ParameterMapper.java

1.231 spring-data-commons 3.5.2

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Found in path(s):
* /spring-context-6-2-9-sources-jar/org/springframework/validation/BindingErrorProcessor.java
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* /spring-context-6-2-9-sources-jar/org/springframework/context/event/ContextClosedEvent.java
*
/spring-context-6-2-9-sources-jar/org/springframework/cache/interceptor/CacheInterceptor.java
* /spring-context-6-2-9-sources-jar/org/springframework/jmx/export/annotation/AnnotationJmxAttributeSource.java
* /spring-context-6-2-9-sources-
jar/org/springframework/ejb/config/RemoteStatelessSessionBeanDefinitionParser.java
* /spring-context-6-2-9-sources-jar/org/springframework/cache/interceptor/VariableNotAvailableException.java
* /spring-context-6-2-9-sources-jar/org/springframework/scripting/config/ScriptBeanDefinitionParser.java
* /spring-context-6-2-9-sources-
jar/org/springframework/validation/beanvalidation/OptionalValidatorFactoryBean.java
* /spring-context-6-2-9-sources-jar/org/springframework/jmx/export/assembler/MetadataMBeanInfoAssembler.java
* /spring-context-6-2-9-sources-jar/org/springframework/cache/CacheManager.java

* /spring-context-6-2-9-sources-jar/org/springframework/context/event/EventExpressionRootObject.java
* /spring-context-6-2-9-sources-
jar/org/springframework/scheduling/annotation/AnnotationAsyncExecutionInterceptor.java
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/spring-context-6-2-9-sources-jar/org/springframework/context/event/SmartApplicationListener.java
* /spring-context-6-2-9-sources-jar/org/springframework/context/support/AbstractXmlApplicationContext.java
* /spring-context-6-2-9-sources-jar/org/springframework/context/support/FileSystemXmlApplicationContext.java
* /spring-context-6-2-9-sources-
jar/org/springframework/instrument/classloading/glassfish/GlassFishLoadTimeWeaver.java
* /spring-context-6-2-9-sources-jar/org/springframework/scheduling/support/TaskUtils.java
* /spring-context-6-2-9-sources-jar/org/springframework/context/event/GenericApplicationListenerDelegate.java
* /spring-context-6-2-9-sources-jar/org/springframework/scheduling/annotation/SchedulingConfigurer.java
* /spring-context-6-2-9-sources-jar/org/springframework/context/expression/BeanFactoryResolver.java
* /spring-context-6-2-9-sources-jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
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* /spring-context-6-2-9-sources-jar/org/springframework/validation/ValidationUtils.java
* /spring-context-6-2-9-sources-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
* /spring-context-6-2-9-sources-jar/org/springframework/ui/context/support/ResourceBundleThemeSource.java
* /spring-context-6-2-9-sources-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /spring-context-6-2-9-sources-jar/org/springframework/scripting/ScriptCompilationException.java
* /spring-context-6-2-9-sources-jar/org/springframework/cache/interceptor/BasicOperation.java
* /spring-context-6-2-9-sources-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
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* /spring-context-6-2-9-sources-jar/org/springframework/scripting/bsh/BshScriptFactory.java
* /spring-context-6-2-9-sources-jar/org/springframework/scheduling/annotation/Async.java
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* /spring-context-6-2-9-sources-jar/org/springframework/format/FormatterRegistrar.java
* /spring-context-6-2-9-sources-jar/org/springframework/jmx/access/InvocationFailureException.java
* /spring-context-6-2-9-sources-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /spring-context-6-2-9-sources-jar/org/springframework/format/AnnotationFormatterFactory.java
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/spring-context-6-2-9-sources-jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /spring-context-6-2-9-sources-
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* /spring-context-6-2-9-sources-
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* /spring-context-6-2-9-sources-jar/org/springframework/jmx/export/annotation/ManagedOperation.java
* /spring-context-6-2-9-sources-jar/org/springframework/context/ApplicationContextInitializer.java
* /spring-context-6-2-9-sources-
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* /spring-context-6-2-9-sources-jar/org/springframework/context/support/StaticApplicationContext.java
* /spring-context-6-2-9-sources-jar/org/springframework/context/annotation/Import.java
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jar/org/springframework/context/support/ReloadableResourceBundleMessageSource.java
* /spring-context-6-2-9-sources-jar/org/springframework/jndi/JndiObjectFactoryBean.java
* /spring-context-6-2-9-sources-jar/org/springframework/scripting/support/StandardScriptFactory.java
* /spring-context-6-2-9-sources-jar/org/springframework/context/annotation/Bean.java
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* /spring-context-6-2-9-sources-jar/org/springframework/scheduling/config/FixedRateTask.java
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* /spring-context-6-2-9-sources-jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /spring-context-6-2-9-sources-jar/org/springframework/ejb/config/AbstractJndiLocatingBeanDefinitionParser.java
* /spring-context-6-2-9-sources-
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* /spring-context-6-2-9-sources-jar/org/springframework/context/annotation/Description.java
* /spring-context-6-2-9-sources-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
* /spring-context-6-2-9-sources-jar/org/springframework/format/Printer.java
* /spring-context-6-2-9-sources-
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* /spring-context-6-2-9-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCache.java
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* /spring-context-6-2-9-sources-jar/org/springframework/stereotype/Controller.java
* /spring-context-6-2-9-sources-jar/org/springframework/context/annotation/ProfileCondition.java
* /spring-context-6-2-9-sources-jar/org/springframework/validation/BeanPropertyBindingResult.java
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*/
/**

```
* Abstract the invocation of a cache operation.
*
* <p>Does not provide a way to transmit checked exceptions but
* provides 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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* /spring-context-6-2-9-sources-jar/org/springframework/cache/interceptor/CacheOperationInvoker.java
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```
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*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A <em>condition</em> is any state that can be determined programmatically
* before the bean definition is due to be registered (see {@link Condition} for details).
*
 * <p>The {@code @Conditional} annotation may be used in any of the following ways:
* <ul>
* <li>as a type-level annotation on any class directly or indirectly annotated with
* {@code @Component}, including {@link Configuration @Configuration} classes</li>
* <li>as a meta-annotation, for the purpose of composing custom stereotype
* annotations</li>
* <li>as a method-level annotation on any {@link Bean @Bean} method</li>
* </ul>
*
* <p>If a {@code @Configuration} class is marked with {@code @Conditional},
* all of the {@code @Bean} methods, {@link Import @Import} annotations, and
```

```
* {@link ComponentScan @ComponentScan} annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of {@code @Conditional} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* {@code @Conditional} itself is not declared as
* {@link java.lang.annotation.Inherited
 @Inherited}; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/
```

Found in path(s):
* /spring-context-6-2-9-sources-jar/org/springframework/context/annotation/Conditional.java

1.233 spring-beans 6.2.9

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* limitations under the License.
*/
/**
  * Process the given {@link ConfigurableListableBeanFactory} instance
  * ahead-of-time and return a contribution or {@code null}.
  * <p>Processors are free to use any techniques they like to analyze the given
  * bean factory. Most typically use reflection to find fields or methods to
  * use in the
```

contribution. Contributions typically generate source code or
 * resource files that can be used when the AOT optimized application runs.
 * <p>If the given bean factory does not contain anything that is relevant to
 * the processor, this method should return a {@code null} contribution.
 * @param beanFactory the bean factory to process
 * @return a {@link BeanFactoryInitializationAotContribution} or {@code null}
 */

Found in path(s):
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotProcessor.java
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* limitations under the License.
*/
/**
 * Process the given {@link RegisteredBean} instance ahead-of-time and
 * return a contribution or {@code null}.
 * <p>
 * Processors are free to use any techniques they like to analyze the given
 * instance. Most typically use reflection to find fields or methods to use
 * in the contribution.
Contributions typically generate source code or
 * resource files that can be used when the AOT optimized application runs.
 * <p>
 * If the given instance isn't relevant to the processor, it should return a
 * {@code null} contribution.
 * @param registeredBean the registered bean to process
 * @return a {@link BeanRegistrationAotContribution} or {@code null}
 */

Found in path(s):
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Found in path(s):
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/ResourceBundleEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/ChildBeanDefinition.java
* /spring-beans-6-2-9-sources-
jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
*
 /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionReader.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/BeanFactoryInitializationCode.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationCodeFragments.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationExcludeFilter.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/MethodInvocationException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/AbstractBeanDefinitionReader.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsAotContribution.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/LocaleEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/groovy/GroovyDynamicElementReader.java
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 /spring-beans-6-2-9-sources-jar/org/springframework/beans/PropertyEditorRegistrar.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/PropertyAccessorFactory.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/AbstractFactoryBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/DependencyDescriptor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/FatalBeanException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/annotation/ParameterResolutionDelegate.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/BeanDefinitionMethodGenerator.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/SimpleBeanDefinitionRegistry.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/MethodOverride.java
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 /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/PatternEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/GenericTypeAwarePropertyDescriptor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/SourceExtractor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/support/SortDefinition.java

* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanFactoryUtils.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/InputSourceEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/InputStreamEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/InstanceSupplierCodeGenerator.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/StandardBeanInfoFactory.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/ListableBeanFactoryExtensions.kt
*
/spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanIsNotAFactoryException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/RuntimeBeanReference.java
* /spring-beans-6-2-9-sources-
jar/org/springframework/beans/factory/aot/BeanDefinitionPropertiesCodeGenerator.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/DefaultDocumentLoader.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/LookupOverride.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/MethodInvokingFactoryBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/ParseState.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfo.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/BeanDefinitionVisitor.java
*
/spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/ReaderEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/SmartFactoryBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/XmlBeanDefinitionStoreException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/ExtendedBeanInfo.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/MethodInvokingBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/ClassArrayEditor.java
* /spring-beans-6-2-9-sources-
jar/org/springframework/beans/factory/config/ObjectFactoryCreatingFactoryBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/InjectionPoint.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/SimpleBeanInfoFactory.java
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/spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/Location.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/ManagedList.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/NullValueInNestedPathException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/ScopeNotActiveException.java
* /spring-beans-6-2-9-sources-
jar/org/springframework/beans/factory/aot/BeanFactoryInitializationAotContribution.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/annotation/CustomAutowireConfigurer.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/PropertiesBeanDefinitionReader.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanCreationException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/ZoneIdEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/ProblemReporter.java
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/spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/ServiceLocatorFactoryBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/NullBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/ObjectFactory.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanNameAware.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/MapFactoryBean.java

* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/BeanExpressionContext.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/Scope.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/AotException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/XmlReaderContext.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/SetFactoryBean.java
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* /spring-beans-6-2-9-sources-
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/NotReadablePropertyException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/DelegatingEntityResolver.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/wiring/BeanWiringInfoResolver.java
* /spring-beans-6-2-9-sources-
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionWrapper.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/CannotLoadBeanClassException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/PropertyAccessorUtils.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/MethodDescriptor.java
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/NamedBeanHolder.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionDecorator.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/YamlMapFactoryBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/BeanDefinitionReader.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/annotation/Configurable.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/CharArrayPropertyEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanFactory.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/DisposableBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/wiring/BeanConfigurerSupport.java
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 /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/URIEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionParser.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/PassThroughSourceExtractor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanIsAbstractException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/MutablePropertyValues.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/PropertyResourceConfigurer.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/SimpleInstantiationStrategy.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/BeanDefinitionHolder.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/ByteArrayPropertyEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/InstanceSupplier.java
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 /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/DocumentLoader.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/BeanRegistrationsAotProcessor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/TypedStringValue.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/PreferencesPlaceholderConfigurer.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/PropertyValuesEditor.java

* /spring-beans-6-2-9-sources-jar/org/springframework/beans/support/PagedListHolder.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanCurrentlyInCreationException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/BeanExpressionResolver.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/PathEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/AutowiredArguments.java
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/spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/FileEditor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/FailFastProblemReporter.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/DefaultListableBeanFactory.java
* /spring-beans-6-2-9-sources-
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanExpressionException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/PropertyMatches.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/FactoryBeanNotInitializedException.java
* /spring-beans-6-2-9-sources-
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/NamedBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/AutowiredFieldValueResolver.java
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/spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanInitializationException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/PropertyEntry.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/BeanDefinitionRegistry.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/AotServices.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/ImportDefinition.java
* /spring-beans-6-2-9-sources-
jar/org/springframework/beans/factory/aot/DefaultBeanRegistrationCodeFragments.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/ListableBeanFactory.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/support/MutableSortDefinition.java
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/spring-beans-6-2-9-sources-jar/org/springframework/beans/DirectFieldAccessor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/DefaultBeanNameGenerator.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/StringArrayPropertyEditor.java
* /spring-beans-6-2-9-sources-
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/GenericBeanDefinition.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/AbstractBeanDefinitionParser.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/ManagedSet.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/NoSuchBeanDefinitionException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/PropertyValues.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/PropertyEditorRegistry.java
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/AbstractNestablePropertyAccessor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/BeanPostProcessor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/DefaultSingletonBeanRegistry.java

* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanFactoryExtensions.kt
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* /spring-beans-6-2-9-sources-
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/AutowiredArgumentsCodeGenerator.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/UnsatisfiedDependencyException.java
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/DefaultNamespaceHandlerResolver.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/YamlPropertiesFactoryBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/CustomMapEditor.java
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* /spring-beans-6-2-9-sources-
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/aot/CodeWarnings.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/BeanDefinitionParserDelegate.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/CachedIntrospectionResults.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/BeanMetadataElement.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/MethodOverrides.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/AutowireCapableBeanFactory.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/AbstractPropertyAccessor.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/config/EmbeddedValueResolver.java
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/spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/AutowireUtils.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/StaticListableBeanFactory.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanDefinitionStoreException.java
* /spring-beans-6-2-9-sources-
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/propertyeditors/UUIDEditor.java
* /spring-beans-6-2-9-sources-
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanFactoryAware.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/DocumentDefaultsDefinition.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/annotation/InjectionMetadata.java
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/spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/NamespaceHandler.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/ManagedArray.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/ObjectProvider.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/NamespaceHandlerResolver.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/BeansDtdResolver.java

* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/xml/AbstractSimpleBeanDefinitionParser.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/RegisteredBean.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/parsing/CompositeComponentDefinition.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/SimpleTypeConverter.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/ManagedProperties.java
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* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/BeanClassLoaderAware.java
* /spring-beans-6-2-9-sources-jar/org/springframework/beans/factory/support/BeanDefinitionDefaults.java

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* /spring-aop-6-2-9-sources-jar/org/springframework/aop/target/SimpleBeanTargetSource.java
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* /spring-aop-6-2-9-sources-jar/org/springframework/aop/ProxyMethodInvocation.java
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* /spring-aop-6-2-9-sources-jar/org/springframework/aop/support/DynamicMethodMatcherPointcut.java
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* /spring-aop-6-2-9-sources-jar/org/aopalliance/intercept/Interceptor.java
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* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/tags/form/AbstractMultiCheckedElementTag.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/tags/ArgumentTag.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/resource/ResourceResolver.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/function/RequestPredicates.java
*
 /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/mvc/condition/RequestMethodsRequestCondition.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/tags/NestedPathTag.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/mvc/method/annotation/ServletWebArgumentResolverAdapter.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/mvc/Controller.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/tags/form/AbstractHtmlInputElementTag.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/handler/SimpleServletPostProcessor.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/tags/EscapeBodyTag.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/FrameworkServlet.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/handler/AbstractDetectingUrlHandlerMapping.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/theme/SessionThemeResolver.java
*
 /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/HandlerExecutionChain.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/config/annotation/InterceptorRegistration.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/theme/AbstractThemeResolver.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/config/annotation/PathMatchConfigurer.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/resource/DefaultResourceResolverChain.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/handler/UserRoleAuthorizationInterceptor.java
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/View.java
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/*

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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
* XSLT-driven View that allows for response context to be rendered as the
* result of an XSLT transformation.
*
* <p>The XSLT Source object is supplied as a parameter in the model and then
* {@link #locateSource detected} during response rendering. Users can either specify
* a specific entry in
 the model via the {@link #setSourceKey sourceKey} property or
* have Spring locate the Source object. This class also provides basic conversion
* of objects into Source implementations. See {@link #getSourceTypes() here}
* for more details.
*
* <p>All model parameters are passed to the XSLT Transformer as parameters.
* In addition the user can configure {@link #setOutputProperties output properties}
* to be passed to the Transformer.
*
* @author Rob Harrop
* @author Juergen Hoeller
* @since 2.0
*/
```

Found in path(s):
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/view/xslt/XsltView.java
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* distributed under the License is distributed on an "AS IS" BASIS,
* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality,
 protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via {@link RequestContext#getRequestDataValueProcessor()}.
*
* @author Rossen Stoyanchev
* @since 3.1
*/
```

Found in path(s):
* /spring-webmvc-6-2-9-sources-jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java

1.236 spring-web 6.2.9

1.236.1 Available under license :

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Found in path(s):

* /spring-web-6-2-9-sources-jar/META-INF/services/reactor.blockhound.integration.BlockHoundIntegration
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This file maps Internet media types to unique file extension(s).
Although created for httpd, this file is used by many software systems
and has been placed in the public domain for unlimited redistribution.
#
The table below contains both registered and (common) unregistered types.
A type that has no unique extension can be ignored -- they are listed
here to guide configurations toward known types and to make it easier to
identify "new" types. File extensions are also commonly used to indicate
content languages and encodings, so choose them carefully.
#
Internet media types should be registered as described in RFC 4288.
The registry is at <https://www.iana.org/assignments/media-types/>.
#
This file was retrieved from
https://svn.apache.org/viewvc/httpd/httpd/trunk/docs/conf/mime.types?revision=1918129&view=co
#
MIME type (lowercased)   Extensions
== ==========

Found
 in path(s):
* /spring-web-6-2-9-sources-jar/org/springframework/http/mime.types
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Found in path(s):
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/JdkClientHttpRequestFactory.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/JdkClientHttpResponse.java
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*/
```

Found in path(s):

```
* /spring-web-6-2-9-sources-jar/org/springframework/web/cors/reactive/UrlBasedCorsConfigurationSource.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/multipart/FormPartEvent.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/ProblemDetail.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/feed/AtomFeedHttpMessageConverter.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/web/util/UriComponentsBuilder.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/MultipartBodyBuilder.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/WebApplicationInitializer.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/service/invoker/ReactiveHttpRequestValues.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/reactive/JdkHttpClientResourceFactory.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/UriBuilderFactory.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/WriteResultPublisher.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/filter/AbstractRequestLoggingFilter.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/UriComponents.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/server/adapter/WebHttpHandlerBuilder.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/web/service/invoker/RequestPartArgumentResolver.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/ReactorUriHelper.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/HttpMediaTypeNotSupportedException.java
* /spring-web-6-2-9-sources-
jar/org/springframework/web/method/annotation/HandlerMethodValidationException.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/ChannelSendOperator.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/cors/CorsProcessor.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/server/session/WebSessionIdResolver.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/HttpComponentsClientHttpRequest.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/method/ControllerAdviceBean.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/ReactorNettyClientRequestFactory.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/web/context/request/FacesWebRequest.java
* /spring-web-6-2-9-sources-
jar/org/springframework/web/context/request/async/DeferredResultInterceptorChain.java
```

* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/protobuf/ProtobufJsonEncoder.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/server/i18n/FixedLocaleContextResolver.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/json/Jackson2ObjectMapperFactoryBean.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/ServerHttpRequest.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/HttpMethod.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/multipart/support/MultipartFilter.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/accept/PathExtensionContentNegotiationStrategy.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/ClientHttpRequestExecution.java
* /spring-web-6-2-9-sources-
jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/web/bind/annotation/RequestParam.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/request/RequestScope.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/AbstractListenerReadPublisher.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/cors/reactive/PreFlightRequestWebFilter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/multipart/DefaultPartEvents.java
* /spring-web-6-2-9-sources-
jar/org/springframework/http/server/observation/DefaultServerRequestObservationConvention.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/service/invoker/ReactorHttpExchangeAdapter.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/JavaScriptUtils.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/json/ProblemDetailJacksonMixin.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/UriBuilder.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/http/codec/protobuf/KotlinSerializationProtobufDecoder.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/method/support/ModelAndViewContainer.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/json/MappingJacksonInputMessage.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/jsf/DecoratingNavigationHandler.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/SimpleClientHttpResponse.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/InterceptingClientHttpRequestFactory.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/filter/RelativeRedirectResponseWrapper.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/AbstractHttpMessageConverter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpConnector.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/web/client/support/RestGatewaySupport.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/multipart/support/StringMultipartFileEditor.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/method/annotation/ModelMethodProcessor.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/HttpCookie.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/ServerSentEventHttpMessageWriter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/JettyHttpHandlerAdapter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/CacheControl.java
* /spring-web-6-2-9-sources-
jar/org/springframework/http/converter/xml/MappingJackson2XmlHttpMessageConverter.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/server/ServerWebExchangeDecorator.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/multipart/MultipartResolver.java
*
 /spring-web-6-2-9-sources-
jar/org/springframework/web/service/invoker/AbstractReactorHttpExchangeAdapter.java

* /spring-web-6-2-9-sources-jar/org/springframework/http/client/OkHttp3ClientHttpRequestFactory.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/HttpMessageWriter.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/client/RestOperations.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/HttpComponentsClientHttpResponse.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/request/NativeWebRequest.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/reactive/JdkClientHttpResponse.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/multipart/MultipartWriterSupport.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/cors/UrlBasedCorsConfigurationSource.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/bind/support/BindParamNameResolver.java
*
/spring-web-6-2-9-sources-jar/org/springframework/http/support/HttpComponentsHeadersAdapter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/support/DefaultClientCodecConfigurer.java
* /spring-web-6-2-9-sources-
jar/org/springframework/http/converter/support/AllEncompassingFormHttpMessageConverter.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/client/RestOperationsExtensions.kt
* /spring-web-6-2-9-sources-
jar/org/springframework/http/converter/cbor/MappingJackson2CborHttpMessageConverter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/xml/MarshallingHttpMessageConverter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/JettyCoreHttpHandlerAdapter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/AbstractGenericHttpMessageConverter.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/support/GenericWebApplicationContext.java
*
/spring-web-6-2-9-sources-jar/org/springframework/web/util/pattern/InternalPathPatternParser.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/bind/annotation/RequestAttribute.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/pattern/PathPattern.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/UndertowServerHttpResponse.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/service/invoker/HttpExchangeAdapter.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/bind/annotation/DeleteMapping.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/protobuf/ProtobufDecoder.java
* /spring-web-6-2-9-sources-
jar/org/springframework/http/server/observation/ServerRequestObservationConvention.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/OkHttp3ClientHttpResponse.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/request/async/WebAsyncManager.java
*
/spring-web-6-2-9-sources-
jar/org/springframework/web/multipart/support/DefaultMultipartHttpServletRequest.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/request/AbstractRequestAttributes.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/ConfigurableWebEnvironment.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/AbstractListenerServerHttpResponse.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/service/invoker/HttpServiceProxyFactory.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/server/adapter/AbstractReactiveWebInitializer.java
* /spring-web-6-2-9-sources-
jar/org/springframework/web/method/annotation/SessionStatusMethodArgumentResolver.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/ClientHttpRequest.java
* /spring-web-6-2-9-sources-
jar/org/springframework/http/converter/json/AbstractJackson2HttpMessageConverter.java
* /spring-web-6-2-9-sources-

jar/org/springframework/web/multipart/support/StandardMultipartHttpServletRequest.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/web/bind/support/WebExchangeDataBinder.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/ConfigurableWebApplicationContext.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/CookieGenerator.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/feed/RssChannelHttpMessageConverter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/ServletServerHttpRequest.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/json/Jackson2JsonDecoder.java
* /spring-web-6-2-9-sources-
jar/org/springframework/web/context/request/async/AsyncRequestTimeoutException.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/pattern/PatternParseException.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/bind/MissingRequestValueException.java
* /spring-web-6-2-9-sources-
jar/org/springframework/web/method/annotation/AbstractNamedValueMethodArgumentResolver.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/web/bind/annotation/PatchMapping.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/UriTemplateHandler.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/ContentDisposition.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/xml/XmlEventDecoder.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/bind/ServletRequestParameterPropertyValues.java
* /spring-web-6-2-9-sources-
jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/client/ClientHttpResponseDecorator.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/server/WebSession.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/KotlinSerializationBinaryDecoder.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/json/MappingJacksonValue.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/web/bind/MissingMatrixVariableException.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/server/handler/FilteringWebHandler.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/HttpHandlerDecoratorFactory.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/JettyCoreServerHttpResponse.java
* /spring-web-6-2-9-sources-
jar/org/springframework/web/method/support/CompositeUriComponentsContributor.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/support/ProxyFactoryBean.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/server/CoWebFilter.kt
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/KotlinSerializationBinaryEncoder.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/method/support/HandlerMethodArgumentResolver.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/bind/annotation/RequestPart.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/http/client/support/HttpRequestWrapper.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/DefaultRequestPath.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/pattern/WildcardTheRestPathElement.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/method/annotation/SessionAttributesHandler.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/multipart/MultipartFileResource.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/request/SessionScope.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/AbstractSmartHttpMessageConverter.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/server/ServerWebInputException.java

* /spring-web-6-2-9-sources-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/filter/HiddenHttpMethodFilter.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/http/ResponseCookie.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/filter/CorsFilter.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/HttpHeadResponseDecorator.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/request/AsyncWebRequestInterceptor.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/context/support/StaticWebApplicationContext.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/service/annotation/HttpExchange.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/client/RequestCallback.java
* /spring-web-6-2-9-sources-
jar/org/springframework/http/server/reactive/observation/ServerHttpObservationDocumentation.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/codec/multipart/MultipartHttpMessageReader.java
*
 /spring-web-6-2-9-sources-jar/org/springframework/http/codec/support/BaseCodecConfigurer.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/json/JacksonModulesRuntimeHints.java
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* /spring-web-6-2-9-sources-jar/org/springframework/web/bind/annotation/MatrixVariable.java
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 /spring-web-6-2-9-sources-
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* /spring-web-6-2-9-sources-jar/org/springframework/http/DefaultHttpStatusCode.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/util/IntrospectorCleanupListener.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/client/reactive/JettyClientHttpResponse.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/converter/json/ProblemDetailRuntimeHints.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/multipart/support/MultipartResolutionDelegate.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/bind/annotation/SessionAttribute.java
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* /spring-web-6-2-9-sources-
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* /spring-web-6-2-9-sources-jar/org/springframework/http/client/reactive/ClientHttpRequest.java
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* /spring-web-6-2-9-sources-jar/org/springframework/web/ErrorResponseException.java
* /spring-web-6-2-9-sources-jar/org/springframework/http/server/reactive/JettyCoreServerHttpRequest.java
* /spring-web-6-2-9-sources-jar/org/springframework/web/filter/ForwardedHeaderFilter.java
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jar/org/springframework/http/server/observation/ServerHttpObservationDocumentation.java

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1.242 caffeine 3.2.2

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File: orm-busy.trace.xz
Description: Database object access of a e-commerce web application during a busy daytime.

File: orm-night.trace.xz
Description: Database object access of a e-ommerce web application during the night time.

File: web07.trace.xz
Description: Normalized access trace (HTTP requests) a product detail page in July 2013.

File: web12.trace.xz
Description: Normalized access trace (HTTP requests) on a product detail page in December 2013.

Format: The accessed objects comprise of a mixture of product inventory, availability per price and also customer data. Objects are keyed by type, id and a index (e.g. the 3rd price of a product). All data is normalized into numbers starting at 0 (or 1 for sub-ids) and then collapsed into a single integer consisting of,
- Bits 27-31: type
- Bits 9-26: id
- Bits 0-9: index

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1.243 prometheus-metrics-exposition-textformats 1.3.10

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1.244 jackson 2.19.2

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.245 netty 4.1.123.Final

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Specification-Title: Netty/All-in-One
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Bundle-DocURL: https://netty.io/
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,org.bouncycastle.jcajce.provider;version=
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Bundle-Name: Netty/All-in-One
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/All-in-One
Bundle-Description: Netty is an asynchronous event-driven network appl
ication framework for   rapid development of maintainable high perfo
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Automatic-Module-Name: io.netty.all
Implementation-Version: 4.1.123.Final
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1.246 spring-security-core 6.5.2

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1.247 micrometer-observation 1.15.2

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*/
/**
  * Specifies a duration in milliseconds defining the minimum query execution time that
  * characterizes a "slow" query. Any SQL query which takes longer than this amount of
  * time to execute will be logged.
  * <p>
  * A value of {@code 0}, the default, disables logging of "slow" queries.
  *
  * @see org.hibernate.stat.Statistics#getSlowQueries()
  */
```

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*/
//     "5.3 in upgrading.  It will be removed in a later version."
```

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*/
/**
  * Subclass used to simply instantiation of singular attributes representing an entity's
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  */
```

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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/archive/scan/spi/ClassFileArchiveEntryHandler.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/IndexedCollection.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/spi/package-info.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/MappingException.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/archive/scan/internal/StandardScanOptions.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/bytecode/enhance/spi/UnsupportedEnhancementStrategy.java
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 /hibernate-core-6-6-22-final-sources-jar/org/hibernate/tuple/VmValueGeneration.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/source/internal/hbm/FilterSourceImpl.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/spi/PreUpdateEventListener.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/boot/model/source/spi/PluralAttributeMapKeyManyToManySource.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/AggregateColumn.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/MySQL8Dialect.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/jdbc/LongNVarcharJdbcType.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/internal/ReattachVisitor.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/Set.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/source/spi/SecondaryTableSource.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/persister/collection/CollectionPersister.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/boot/model/source/internal/hbm/IndexedPluralAttributeSource.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/annotations/RowId.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/annotations/SQLUpdate.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/jdbc/JdbcTypeConstructor.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/spi/SessionDelegatorBaseImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/resource/jdbc/spi/JdbcSessionOwner.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/spi/AutoFlushEvent.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/tool/schema/internal/ExceptionHandlerLoggedImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/spi/PreLoadEventListener.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/internal/PostDeleteEventListenerStandardImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/sql/package-info.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/Fetchable.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/boot/model/source/spi/FetchCharacteristicsPluralAttribute.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/service/spi/SessionFactoryServiceInitiatorContext.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/resource/transaction/backend/jta/internal/synchronization/ExceptionMapper.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/id/Configurable.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/spi/EventType.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/bytecode/enhance/internal/tracker/DirtyTracker.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/spi/AbstractDelegatingSharedSessionBuilder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/id/PersistentIdentifierGenerator.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/source/internal/hbm/RootEntitySourceImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/exception/DataException.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/KeyValue.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/engine/transaction/jta/platform/internal/BorlandEnterpriseServerJtaPlatform.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/cfg/ImprovedNamingStrategy.java
* /hibernate-core-6-6-22-final-sources-
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*

/hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/jdbc/CharacterStream.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/jdbc/batch/spi/BatchKey.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/stat/internal/CollectionStatisticsImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/PersistentClass.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/internal/util/ZonedDateTimeComparator.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/tool/schema/spi/CommandAcceptanceException.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/StatelessSessionBuilder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/PostgreSQLCastingInetJdbcType.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/engine/jdbc/connections/spi/MultiTenantConnectionProvider.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/engine/transaction/jta/platform/internal/JtaPlatformResolverInitiator.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/internal/TwoPhaseLoad.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/UnsupportedLockAttemptException.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/source/spi/EmbeddableMapping.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/internal/ExceptionMapperLegacyJpaImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/OracleDialect.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/sequence/NextvalSequenceSupport.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/internal/util/collections/IdentityMap.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/java/ShortPrimitiveArrayJavaType.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/spi/QueryImplementor.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/source/spi/ToolingHintContext.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/sequence/PostgreSQLSequenceSupport.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/UnionSubclass.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/persister/internal/PersisterFactoryImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/JavaTypeDescriptor.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/FetchStyle.java
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* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/spi/LoadEvent.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/context/internal/JTASessionContext.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/jdbc/package-info.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/EmptyInterceptor.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/spi/PreLoadEvent.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/source/spi/CollectionIdSource.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/IdentifierLoadAccess.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/jaxb/internal/stax/FilteringXMLEventReader.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/query/spi/AbstractParameterDescriptor.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/property/access/spi/package-info.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/id/AbstractPostInsertGenerator.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/internal/EntityState.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/annotations/SQLDeletes.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/spi/QueryProducerImplementor.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/CacheRegionDefinition.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/Array.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/naming/ImplicitNamingStrategy.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/tuple/Tuplizer.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/source/spi/SizeSource.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/Join.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/archive/scan/spi/ScanOptions.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/annotations/FilterDefs.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/annotations/DynamicInsert.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/MetadataBuilder.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/event/service/internal/EventListenerRegistryImpl.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/internal/AnnotationBinder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/tree/insert/InsertStatement.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/jdbc/LocalDateTimeJdbcType.java
*

/hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/jdbc/env/internal/BlobAndClobCreator.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/internal/CollectionSecondPass.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/exec/internal/AbstractJdbcOperationQueryInsert.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/internal/BagBinder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/internal/PropertyBinder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/internal/PersistentAttributeFilter.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/persister/collection/mutation/RemoveCoordinatorNoOp.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/tuple/package-info.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/CacheModeMarshalling.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/ValuesAnalysis.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/internal/TableBinder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/jaxb/mapping/NaturalId.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/ast/builder/MutationGroupBuilder.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/boot/jaxb/mapping/marshall/ResultCheckStyleMarshalling.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/ast/MutationGroup.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/ColumnDefaults.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/loader/ast/spi/MultiKeyLoadSizingStrategy.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/sql/results/jdbc/internal/JdbcValuesMappingProducerProviderInitiator.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/jdbc/LocalDateJdbcType.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobTypes.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/jdbc/batch/spi/Batch.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/jdbc/JdbcMutationOperation.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/jaxb/internal/MappingBinder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/internal/MapBinder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/service/JavaServiceLoadable.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/jdbc/batch/internal/BatchBuilderImpl.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/engine/jdbc/mutation/internal/AbstractSingleMutationExecutor.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/mapping/DefaultDiscriminatorConverter.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/internal/EmbeddableBinder.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/jdbc/batch/internal/BatchImpl.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/metamodel/mapping/internal/ManyToManyCollectionPart.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/loader/ast/internal/AbstractCollectionBatchLoader.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/jdbc/UpsertOperation.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/persister/collection/mutation/OperationProducer.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/internal/FetchSecondPass.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/jdbc/DeleteOrUpsertOperation.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/jaxb/mapping/marshall/AccessTypeMarshalling.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/cfg/SessionEventSettings.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/internal/OptionalTableUpdate.java
*

/hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/jdbc/LocalTimeJdbcType.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/mapping/TableDetails.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/cfg/StatisticsSettings.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/internal/EntityMutationOperationGroupStandard.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/internal/util/IndexedBiConsumer.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/internal/TableDeleteStandard.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/model/ast/AbstractTableDelete.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/loader/ast/spi/MultiKeyLoader.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/MutationExecutorSingleNonBatched.java
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<!--
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Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/persistence_2_2.xsd
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/orm_2_2.xsd
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*/
/**
 * Used to pass a CDI {@link jakarta.enterprise.inject.spi.BeanManager} to
 * Hibernate.
 * <p>
 * According to the JPA specification, the {@code BeanManager} should be
 * passed at boot time and be ready for immediate use at that time. But
 * not all environments can do this (WildFly, for example). To accommodate
 * such environments, Hibernate provides two options:
 *   A proprietary CDI extension SPI (which has been proposed to the CDI
 *   spec group as a standard option) which can be used to provide delayed
 *   {@code BeanManager} access: to use this solution, the reference passed
 *   as the {@code BeanManager} during bootstrap should
 be typed as
 *   {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.
 *   Delayed access to the {@code BeanManager} reference: here, Hibernate
 *   will not access the reference passed as the {@code BeanManager} during
 *   bootstrap until it is first needed. Note, however, that this has the

```
 *         effect of delaying the detection of any deployment problems until after
 *         bootstrapping.
 * </ol>
 *
 * This setting is used to configure access to the {@code BeanManager},
 * either directly, or via
 * {@link org.hibernate.resource.beans.container.spi.ExtendedBeanManager}.
 *
 * @see org.hibernate.boot.SessionFactoryBuilder#applyBeanManager(Object)
 */
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/cfg/ManagedBeanSettings.java
No license file was found, but licenses were detected in source scan.

```
/*
* Checker Framework utilities
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* THE SOFTWARE.
*/
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/internal/util/NullnessUtil.java
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```
/*
* Hibernate, Relational Persistence for Idiomatic Java
*
```

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*/
// public DomainResult createDomainResult(

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmLiteralEntityType.java
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*/
/*
* Written by Doug Lea with assistance from members of JCP JSR-166
* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*
* Modified for https://jira.jboss.org/jira/browse/ISPN-299
* Includes ideas described in http://portal.acm.org/citation.cfm?id=1547428
*
*/
/**
* A hash table supporting full concurrency of retrievals and
* adjustable expected concurrency for updates. This class obeys the
* same functional specification as {@link java.util.Hashtable}, and
* includes versions of methods corresponding to each method of
* {@code Hashtable}. However, even though all operations are
* thread-safe, retrieval operations
 do not entail locking,
* and there is not any support for locking the entire table
* in a way that prevents all access. This class is fully
* interoperable with {@code Hashtable} in programs that rely on its
* thread safety but not on its synchronization details.
* <p>
* <p> Retrieval operations (including {@code get}) generally do not
* block, so may overlap with update operations (including
* {@code put} and {@code remove}). Retrievals reflect the results
* of the most recently completed update operations holding
* upon their onset. For aggregate operations such as {@code putAll}
* and {@code clear}, concurrent retrievals may reflect insertion or
* removal of only some entries. Similarly, Iterators and
* Enumerations return elements reflecting the state of the hash table
* at some point at or since the creation of the iterator/enumeration.
* They do not throw {@link java.util.ConcurrentModificationException}.
* However,

iterators are designed to be used by only one thread at a time.
*
* The allowed concurrency among update operations is guided by
* the optional {@code concurrencyLevel} constructor argument
* (default {@code 16}), which is used as a hint for internal sizing. The
* table is internally partitioned to try to permit the indicated
* number of concurrent updates without contention. Because placement
* in hash tables is essentially random, the actual concurrency will
* vary. Ideally, you should choose a value to accommodate as many
* threads as will ever concurrently modify the table. Using a
* significantly higher value than you need can waste space and time,
* and a significantly lower value can lead to thread contention. But
* overestimates and underestimates within an order of magnitude do
* not usually have much noticeable impact. A value of one is
* appropriate when it is known that only one thread will modify and
* all others will only read. Also, resizing this
 or any other kind of
* hash table is a relatively slow operation, so, when possible, it is
* a good idea to provide estimates of expected table sizes in
* constructors.
*
* This class and its views and iterators implement all of the
* optional methods of the {@link Map} and {@link Iterator}
* interfaces.
*
* This class is copied from Infinispan, and was originally written
* by Doug Lea with assistance from members of JCP JSR-166 Expert Group and
* released to the public domain, as explained at
* http://creativecommons.org/licenses/publicdomain
*
*
* Like {@link java.util.Hashtable} but unlike {@link HashMap}, this class
* does not allow {@code null} to be used as a key or value.
*
* @param <K> the type of keys maintained by this map
* @param <V> the type of mapped values
*
* @author Doug Lea
*/

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java
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```
* See the lgpl.txt file in the root directory or <http://www.gnu.org/licenses/lgpl-2.1.html>.
*/
/**
 * Read/write access to the shared second-level cache using
 * soft locks.
 * <p>
 * Indicates a non-vanishing likelihood that two concurrent
 * transactions attempt to update the same item of data
 * simultaneously. This strategy uses "soft" locks to prevent
 * concurrent transactions from retrieving or storing a stale
 * item from or in the cache during the transaction completion
 * process. A soft lock is simply a marker entry placed in the
 * cache while the updating transaction completes.
 * <ul>
 * <li>A second transaction may not read the item from the
 *     cache while the soft lock is present, and instead
 *     simply proceeds to read the item directly from
the
 *     database, exactly as if a regular cache miss had
 *     occurred.
 * <li>Similarly, the soft lock also prevents this second
 *     transaction from storing a stale item to the cache
 *     when it returns from its round trip to the database
 *     with something that might not quite be the latest
 *     version.
 * </ul>
 * <p>
 * This concurrency strategy is not compatible with
 * serializable transaction isolation.
 *
 * @see AccessType#READ_WRITE
 */
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/annotations/CacheConcurrencyStrategy.java
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*/
/**
 * In {@linkplain jakarta.persistence.InheritanceType#SINGLE_TABLE single table}
 * inheritance, subclasses share a table with the root class by definition. But
 * for {@linkplain jakarta.persistence.InheritanceType#JOINED joined} or
 * {@linkplain jakarta.persistence.InheritanceType#TABLE_PER_CLASS union} mappings,
```

```
 * the subclasses are assumed to occupy distinct tables, and it's an error to map
 * two subclasses to the same table.
 * <p>
 * As a special exception to this, if a joined inheritance hierarchy defines an
 * explicit {@link jakarta.persistence.DiscriminatorColumn}, we tolerate table
 * duplication among the subclasses, but we must "force" the discriminator to

 * account for this. (See issue HHH-14526.)
 */
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/mapping/RootClass.java
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 -->
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/xsd/mapping/mapping-3.1.0.xsd
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-->
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/orm_3_0.xsd
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/persistence_3_0.xsd
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/persistence_3_1.xsd
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*/
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Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/internal/util/collections/ConcurrentReferenceHashMap.java
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*/
//  "proprietary" methods is better (this class is "proprietary" too).
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/graph/EntityGraphs.java
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```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/spi/MetamodelImplementor.java
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*/
// It supports a proprietary operator
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/MariaDBSqlAstTranslator.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/MySQLSqlAstTranslator.java
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#
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/META-INF/services/jakarta.persistence.spi.PersistenceProvider
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*/
/**
* JTA platform implementation intended for use with WebSphere Application Server (WAS).
* <p>
* WAS, unlike every other app server on the planet, does not allow direct access to the JTS TransactionManager.
* Instead, for common transaction-related tasks users must utilize a proprietary API known as
ExtendedJTATransaction.
* <p>
* Even more unfortunate, the exact TransactionManagerLookup to use inside of WAS is highly dependent upon<ul>
*     <li>WAS version</li>
*     <li>the WAS container in which Hibernate will be utilized</li>
* </ul>
* <p>
* This class is reported to work on WAS version 6 in any of the standard J2EE/Java EE component containers.
*
* @author Gavin
 King
* @author Jesper Udby
* @author Steve Ebersole
*/
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
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*/
```

Found in path(s):
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/model/domain/AbstractDomainType.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/tree/expression/BinaryArithmeticExpression.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/results/graph/FetchList.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/java/spi/CollectionJavaType.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/OracleSqlAstTranslator.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/predicate/SqmMemberOfPredicate.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/query/sqm/mutation/internal/cte/AbstractCteMutationHandler.java
*
/hibernate-core-6-6-22-final-sources-
jar/org/hibernate/dialect/function/array/PostgreSQLArrayConcatElementFunction.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/results/jdbc/internal/AbstractJdbcValues.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/criteria/JpaSelectCriteria.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmTreatedListJoin.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/loader/ast/internal/LoaderSelectBuilder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/cache/cfg/internal/EntityDataCachingConfigImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/internal/AttributeContext.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/spi/QueryOptionsAdapter.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/cache/spi/DomainDataRegion.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmListJoin.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmPluralValuedSimplePath.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/internal/CompositeUserTypeJavaTypeWrapper.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/spi/EmbeddableRepresentationStrategy.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/NamedQueryValidationException.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/StrictJpaComplianceViolation.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmAny.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/MySQLServerConfiguration.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/metamodel/model/domain/internal/EmbeddableTypeImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/internal/QueryInterpretationCacheStandardImpl.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/internal/MultiIdentifierLoadAccessImpl.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/spi/EmbeddableInstantiator.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/graph/internal/parse/PathQualifierType.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/metamodel/mapping/internal/EmbeddedForeignKeyDescriptorSide.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/results/graph/Fetchable.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/SqmExpressibleAccessor.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/results/dynamic/AbstractFetchBuilderContainer.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/results/implicit/ImplicitFetchBuilder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/exec/spi/JdbcCallParameterExtractor.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/CollectionClassification.java
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/tree/from/TableGroup.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/loader/ast/spi/NaturalIdLoadOptions.java

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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/java/CoercionHelper.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/predicate/SqmNegatedPredicate.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/criteria/JpaCoalesce.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/mapping/EntityDiscriminatorMapping.java
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*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/loader/ast/internal/CollectionLoaderSingleKey.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/CustomCollectionType.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/java/spi/EntityJavaType.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/mapping/ManagedMappingType.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/exec/spi/Callback.java
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/hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/criteria/JpaValues.java
* /hibernate-core-6-6-22-final-sources-
jar/org/hibernate/query/sqm/produce/function/FunctionReturnTypeResolver.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/model/TypeDefinitionRegistryStandardImpl.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmSingularJoin.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/internal/util/MutableInteger.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/boot/xsd/package-info.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/internal/ImmutableNamedBasicTypeImpl.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/tree/select/package-info.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/results/dynamic/DynamicResultBuilder.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/tree/AbstractStatement.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/exec/spi/StatementOptions.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/select/SqmSelectQuery.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/function/OracleTruncFunction.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/domain/SqmCorrelatedPluralPartJoin.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/function/array/OracleArraySetFunction.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/tree/from/UnknownTableReferenceException.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/java/MutabilityPlanExposer.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/FrameExclusion.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/tree/expression/SqlTupleContainer.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/type/descriptor/java/YearJavaType.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/results/dynamic/DynamicFetchBuilder.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/results/internal/RowProcessingStateStandardImpl.java
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/hibernate-core-6-6-22-final-sources-jar/org/hibernate/stat/spi/package-info.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/results/graph/FetchTimingAccess.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sqm/tree/insert/AbstractSqmInsertStatement.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/stat/internal/package-info.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/hql/spi/DotIdentifierConsumer.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/tree/insert/InsertSelectStatement.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/sql/internal/NativeNonSelectQueryPlanImpl.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/spi/AbstractSqlAstTranslator.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/metamodel/mapping/ordering/AliasResolver.java
* /hibernate-core-6-6-22-final-sources-
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/query/hql/spi/SqmCreationOptions.java
*
 /hibernate-core-6-6-22-final-sources-jar/org/hibernate/sql/ast/tree/from/OneToManyTableGroup.java
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/dialect/function/array/AbstractArrayPositionFunction.java
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*/
/**
 * Must do the following:
 * <ol>
 *     <li>
 *       obtain a {@link ResultSet} containing a row for any existing
 *       catalog/schema/table/column combination as specified by the
 *       {@code catalog}, {@code schemaPattern}, {@code tableNamePattern},
 *       and {@code columnNamePattern} parameters described below.
 *       The {@link ResultSet} must contain the following, consistent with the
 *       corresponding columns returned by {@link DatabaseMetaData#getColumns}
 *       <ul>
 *          <li>column label {@link #getResultSetTableNameLabel} for table name</li>
 *          <li>column label {@link #getResultSetColumnNameLabel} for column
name</li>
 *          <li>column label {@link #getResultSetSqlTypeCodeLabel} SQL type code from java.sql.Types</li>
 *          <li>column label {@link #getResultSetTypeNameLabel} for database column type name</li>
```

```
 *            <li>column label {@link #getResultSetColumnSizeLabel} for column size</li>
 *            <li>column label {@link #getResultSetDecimalDigitsLabel} for number of fractional digits</li>
 *            <li>column label {@link #getResultSetIsNullableLabel} for nullability</li>
 *        </ul>
 *        Rows must be ordered by catalog, schema, table name, and column position.
 *    </li>
 *    <li> execute {@code processor.process( resultSet )};</li>
 *    <li>
 *        release resources whether {@code processor.process( resultSet )}
 *        executes successfully or not.
 *    </li>
 * </ol>
 * <p>
 * The {@code catalog}, {@code schemaPattern}, {@code tableNamePattern},
 * and {@code columnNamePattern} parameters are as
 * specified
by {@link DatabaseMetaData#getColumns(String, String, String, String)},
 * and are copied here:
 * <p>
 * @param catalog – a catalog name; must match the catalog name as it is
 *                stored in the database; "" retrieves those without
 *                a catalog; null means that the catalog name should
 *                not be used to narrow the search
 * @param schemaPattern – a schema name pattern; must match the schema
 *                      name as it is stored in the database; ""
 *                      retrieves those without a schema; null means
 *                      that the schema name should not be used to
 *                      narrow the search
 * @param tableNamePattern – a table name pattern; must match the table
 *                         name as it is stored in the database
 * @param columnNamePattern – a column name pattern; must match the
 *                          column name as it is stored in the database

 * @param processor - the provided ResultSetProcessor.
 * @param <T> - defined by {@code processor}
 * @return - defined by {@code processor}
 * @throws SQLException - if a database error occurs
 */
```

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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/tool/schema/extract/internal/AbstractInformationExtractorImpl.java
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* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/orm_2_0.xsd
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/persistence_2_0.xsd
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/hibernate-configuration-4.0.xsd
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/persistence_1_0.xsd
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/xsd/mapping/legacy-mapping-4.0.xsd
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/xsd/cfg/legacy-configuration-4.0.xsd
* /hibernate-core-6-6-22-final-sources-jar/org/hibernate/hibernate-mapping-4.0.xsd
*
/hibernate-core-6-6-22-final-sources-jar/org/hibernate/jpa/orm_1_0.xsd
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*/
/**
  * Does this dialect support the SQL {@code lateral} keyword or a
  * proprietary alternative?
  *
  * @return {@code true} if the underlying database supports lateral,
  * {@code false} otherwise. The default is {@code false}.
  */

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1.250 spring-boot 3.5.4

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1.251 micrometer-registry-prometheus 1.15.2

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* /micrometer-commons-1-15-2-sources-jar/io/micrometer/common/lang/package-info.java
* /micrometer-commons-1-15-2-sources-jar/io/micrometer/common/util/package-info.java
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1.253 micrometer-core 1.15.2

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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/util/NamedThreadFactory.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/logging/LoggingRegistryConfig.java
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/micrometer-core-1-15-2-sources-jar/io/micrometer/core/ipc/http/HttpSender.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/push/PushMeterRegistry.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/StrongReferenceGaugeFunction.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/MultiGauge.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/push/PushRegistryConfig.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/logging/LoggingMeterRegistry.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/ipc/http/HttpUrlConnectionSender.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/util/internal/logging/InternalLoggerFactory.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/util/internal/logging/JdkLoggerFactory.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/http/HttpRequestTags.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/config/validate/DurationValidator.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/jetty/JettyClientTags.java

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 /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/config/MeterRegistryConfigValidator.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/step/StepMeter.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/netty4/NettyAllocatorMetrics.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/grpc/MetricCollectingServerCall.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/hystrix/MicrometerMetricsPublisherThreadPool.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/noop/NoopFunctionTimer.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/cache/package-info.java

* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/annotation/Timed.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/composite/package-info.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyTagsProvider.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/LongTaskTimer.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/distribution/Histogram.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/search/package-info.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/cumulative/package-info.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/FunctionCounter.java

* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/jvm/ClassLoaderMetrics.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/dropwizard/DropwizardGauge.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/distribution/HistogramGauges.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/jersey/server/ObservationApplicationEventListener.java
*
 /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/okhttp3/package-info.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyContext.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/kafka/package-info.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/http/DefaultHttpJakartaServletRequestTagsProvider.java
*
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/annotation/package-info.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/jersey/server/JerseyObservationDocumentation.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/config/validate/package-info.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/jersey/server/package-info.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/DefaultApacheHttpClientObservationConvention.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/tomcat/package-info.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/jersey/server/ObservationRequestEventListener.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/package-info.java

* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/jvm/package-info.java
*
 /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/httpcomponents/ApacheHttpClientObservationDocumentation.java
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* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/binder/hystrix/package-info.java
* /micrometer-core-1-15-2-sources-jar/io/micrometer/core/instrument/kotlin/package-info.java
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1.254 spring-aspects 6.2.9

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1.255 hikaricp 6.3.1

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* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/pool/HikariPool.java
* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/metrics/MetricsTrackerFactory.java
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* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/HikariDataSource.java
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* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/HikariPoolMXBean.java
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* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTaskFactory.java
* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/pool/ProxyLeakTask.java

* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/metrics/micrometer/MicrometerMetricsTracker.java
* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/util/ConcurrentBag.java
* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/SQLExceptionOverride.java
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* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/util/SuspendResumeLock.java
*
 /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/HikariConfig.java
* /hikaricp-6-3-1-sources-jar/com/zaxxer/hikari/util/FastList.java
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1.256 micrometer-jakarta9 1.15.2

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Found in path(s):
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/service/DestinationVariableArgumentResolver.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompClientSupport.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/MessageHeaders.java
*
/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/SimpMessageSendingOperations.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/ReactorNettyTcpStompClient.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/user/SimpSubscription.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/annotation/support/RSocketMessageHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompHeaders.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/tcp/ReconnectStrategy.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/MetadataExtractorRegistryExtensions.kt
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/MetadataExtractorRegistry.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/SimpAttributes.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/SimpMessagingTemplate.java
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/broker/BrokerAvailabilityEvent.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/service/RSocketServiceProxyFactory.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/tcp/reactor/ReactorNetty2TcpConnection.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/core/BeanFactoryMessageChannelDestinationResolver.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompSessionHandlerAdapter.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/support/HeaderMapper.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/annotation/support/HeadersMethodArgumentResolver.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/DefaultRSocketRequesterBuilder.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompHeaderAccessor.java
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/annotation/SendTo.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/invocation/reactive/ArgumentResolverConfigurer.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/user/SimpUserRegistry.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/invocation/ListenableFutureReturnValueHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/annotation/support/MessagingRSocket.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/support/InterceptableChannel.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/BufferingStompDecoder.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/converter/SimpleMessageConverter.java

* /spring-messaging-6-2-9-sources-
jar/org/springframework/messaging/rsocket/annotation/support/RSocketRequesterMethodArgumentResolver.java
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/annotation/SubscribeMapping.java
* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-
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jar/org/springframework/messaging/handler/annotation/support/AbstractNamedValueMethodArgumentResolver.jav
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* /spring-messaging-6-2-9-sources-
jar/org/springframework/messaging/simp/broker/SimpleBrokerMessageHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/support/ExecutorChannelInterceptor.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/support/AbstractHeaderMapper.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/DefaultRSocketStrategies.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/ConnectionLostException.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/core/CachingDestinationResolverProxy.java
* /spring-messaging-6-2-9-sources-
jar/org/springframework/messaging/rsocket/service/RSocketExchangeReflectiveProcessor.java
* /spring-messaging-6-2-9-sources-
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompTcpMessageCodec.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/core/MessageReceivingOperations.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/core/MessageSendingOperations.java
* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/converter/ProtobufMessageConverter.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompSessionHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompDecoder.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/user/MultiServerUserRegistry.java
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/MessagingException.java
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/MetadataExtractor.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/converter/ByteArrayMessageConverter.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompSession.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/converter/CompositeMessageConverter.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/tcp/reactor/TcpMessageCodec.java
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* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/user/SimpSession.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/DefaultStompSession.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/MessageHandlingException.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/service/RSocketServiceMethod.java
* /spring-messaging-6-2-9-sources-
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/MessageChannel.java
* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/RSocketConnectorConfigurer.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/support/GenericMessage.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/MetadataEncoder.java
* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/tcp/TcpOperations.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/invocation/reactive/ChannelSendOperator.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/SubscribableChannel.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/annotation/reactive/AbstractNamedValueMethodArgumentResolver.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/service/RSocketRequestValues.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/broker/OrderedMessageChannelDecorator.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/ReactiveMessageHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/MessageCondition.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/SimpLogging.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/invocation/reactive/HandlerMethodArgumentResolverComposite.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/converter/KotlinSerializationJsonMessageConverter.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/core/DestinationResolutionException.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/invocation/InvocableHandlerMethod.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/user/UserDestinationResult.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/DefaultMetadataExtractor.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/AbstractMessageCondition.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/invocation/AbstractAsyncReturnValueHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/annotation/reactive/HeadersMethodArgumentResolver.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/PollableChannel.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/SimpMessageMappingInfo.java
* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/RSocketRequesterExtensions.kt
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/converter/ContentTypeResolver.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/DefaultRSocketRequester.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/support/MessageBuilder.java
* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/support/NativeMessageHeaderAccessor.java
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* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/MessagingAdviceBean.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/config/MessageBrokerRegistry.java
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* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/tcp/reactor/ReactorNettyCodec.java
* /spring-messaging-6-2-9-sources-
jar/org/springframework/messaging/rsocket/annotation/support/RSocketFrameTypeMessageCondition.java
* /spring-messaging-6-2-9-sources-
jar/org/springframework/messaging/handler/annotation/support/MethodArgumentNotValidException.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/RSocketRequester.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/annotation/ConnectMapping.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/support/MessageHeaderAccessor.java

* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/broker/AbstractSubscriptionRegistry.java
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/invocation/reactive/HandlerMethodReturnValueHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/core/GenericMessagingTemplate.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompCommand.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/invocation/reactive/AbstractEncoderMethodReturnValueHandler.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/tcp/TcpConnectionHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/core/DestinationResolver.java
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/CompositeMessageCondition.java
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/SimpMessageHeaderAccessor.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/annotation/reactive/MessageMappingMessageHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/annotation/support/RSocketPayloadReturnValueHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/annotation/support/MethodArgumentTypeMismatchException.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/core/DestinationResolvingMessageReceivingOperations.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/service/RSocketExchangeBeanRegistrationAotProcessor.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/config/StompBrokerRelayRegistration.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/tcp/reactor/ReactorNettyTcpConnection.java
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/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/annotation/ValueConstants.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/converter/SmartMessageConverter.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/SimpMessageType.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/user/SimpSubscriptionMatcher.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/tcp/reactor/ReactorNettyTcpClient.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/rsocket/service/PayloadArgumentResolver.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/SimpSessionScope.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/user/UserDestinationMessageHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/invocation/reactive/InvocableHelper.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/handler/annotation/support/MessageHandlerMethodFactory.java
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* /spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompReactorNettyCodec.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/SimpAttributesContextHolder.java
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/spring-messaging-6-2-9-sources-
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* /spring-messaging-6-2-9-sources-
jar/org/springframework/messaging/handler/annotation/support/DestinationVariableMethodArgumentResolver.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/converter/DefaultContentTypeResolver.java
*
/spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/StompFrameHandler.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/converter/MessageConverter.java
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/core/MessageRequestReplyOperations.java
* /spring-messaging-6-2-9-sources-
jar/org/springframework/messaging/converter/MarshallingMessageConverter.java
* /spring-messaging-6-2-9-sources-
jar/org/springframework/messaging/handler/invocation/reactive/AbstractMethodMessageHandler.java
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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):
* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/config/TaskExecutorRegistration.java

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* /spring-messaging-6-2-9-sources-jar/org/springframework/messaging/simp/stomp/SplittingStompEncoder.java

1.258 spring-data-redis 3.5.2

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1.259 spring-data-keyvalue 3.5.2

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1.262 tomcat-embed-el 10.1.43

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1.263 postgre-sql 42.7.7

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1.264 spring-data-mongodb 4.5.2

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1.268 javax-activation 2.1.3

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1.269 ngx-color 9.0.0

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1.270 echarts 5.6.0

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1.272 ngx-json-viewer 3.2.1

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1.274 angular 18.2.13

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1.275 mongodb 6.0.26

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```
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*/

#ifndef BOOST_PREDEF_OS_BSD_H
#define BOOST_PREDEF_OS_BSD_H

/* Special case: OSX will define BSD predefs if the sys/param.h
* header is included. We can guard against that, but only if we
* detect OSX first. Hence we will force include OSX detection
* before doing any BSD detection.
*/
#include <boost/predef/os/macos.h>

#include <boost/predef/version_number.h>
#include <boost/predef/make.h>

/* tag::reference[]
= `BOOST_OS_BSD`

http://en.wikipedia.org/wiki/Berkeley_Software_Distribution[BSD] operating system.

BSD has various branch operating systems possible and each detected
individually. This detects the following variations and sets a specific
version number macro to match:

* `BOOST_OS_BSD_DRAGONFLY` http://en.wikipedia.org/wiki/DragonFly_BSD[DragonFly BSD]
* `BOOST_OS_BSD_FREE` http://en.wikipedia.org/wiki/Freebsd[FreeBSD]
*
```

`BOOST_OS_BSD_BSDI` http://en.wikipedia.org/wiki/BSD/OS[BSDi BSD/OS]
* `BOOST_OS_BSD_NET` http://en.wikipedia.org/wiki/Netbsd[NetBSD]
* `BOOST_OS_BSD_OPEN` http://en.wikipedia.org/wiki/Openbsd[OpenBSD]

NOTE: The general `BOOST_OS_BSD` is set in all cases to indicate some form
of BSD. If the above variants is detected the corresponding macro is also set.

[options="header"]
|===
| {predef_symbol} | {predef_version}

| `BSD` | {predef_detection}
| `+_SYSTYPE_BSD+` | {predef_detection}

| `BSD4_2` | 4.2.0
| `BSD4_3` | 4.3.0
| `BSD4_4` | 4.4.0
| `BSD` | V.R.0
|===
*/ // end::reference[]

```
#include <boost/predef/os/bsd/bsdi.h>
#include <boost/predef/os/bsd/dragonfly.h>
#include <boost/predef/os/bsd/free.h>
#include <boost/predef/os/bsd/open.h>
#include <boost/predef/os/bsd/net.h>

#ifndef BOOST_OS_BSD
#define BOOST_OS_BSD BOOST_VERSION_NUMBER_NOT_AVAILABLE
#endif

#if !defined(BOOST_PREDEF_DETAIL_OS_DETECTED) && ( \
  defined(BSD) || \
  defined(_SYSTYPE_BSD)
 \
  )
#   undef BOOST_OS_BSD
#   include <sys/param.h>
#   if !defined(BOOST_OS_BSD) && defined(BSD4_4)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,4,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD4_3)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,3,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD4_2)
#       define BOOST_OS_BSD BOOST_VERSION_NUMBER(4,2,0)
#   endif
#   if !defined(BOOST_OS_BSD) && defined(BSD)
```

```
#      define BOOST_OS_BSD BOOST_PREDEF_MAKE_10_VVRR(BSD)
#   endif
#   if !defined(BOOST_OS_BSD)
#      define BOOST_OS_BSD BOOST_VERSION_NUMBER_AVAILABLE
#   endif
#endif

#if BOOST_OS_BSD
#   define BOOST_OS_BSD_AVAILABLE
#   include <boost/predef/detail/os_detected.h>
#endif

#define BOOST_OS_BSD_NAME "BSD"

#endif

#include <boost/predef/os/bsd/bsdi.h>
#include <boost/predef/os/bsd/dragonfly.h>
#include <boost/predef/os/bsd/free.h>
#include <boost/predef/os/bsd/open.h>
#include <boost/predef/os/bsd/net.h>

#include <boost/predef/detail/test.h>
BOOST_PREDEF_DECLARE_TEST(BOOST_OS_BSD,BOOST_OS_BSD_NAME)
## -*-makefile-*-
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## BSD-specific setup (FreeBSD, OpenBSD, NetBSD, *BSD)
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## Commands to generate dependency files
GEN_DEPS.c= $(CC) -E -MM $(DEFS) $(CPPFLAGS)
GEN_DEPS.cc= $(CXX) -E -MM $(DEFS) $(CPPFLAGS)

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

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

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

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

## Shared library options
LD_SOOPTIONS= -Wl,-Bsymbolic

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

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

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


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

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

## Versioned libraries rules

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

##  Bind internal references

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

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

Remove shared library 's'
STATIC_PREFIX_WHEN_USED =
STATIC_PREFIX =

End BSD-specific setup
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