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1.5 orika-core 1.5.4

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* /javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
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 /javassist-3-24-0-ga-sources-5-jar/javassist/bytecode/annotation/ArrayMemberValue.java
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1.9 jakarta-inject-api 2.0.1

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1.10 jakarta-transaction-api 2.0.1

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1.12 jakarta-validation-api 3.0.2

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Found in path(s):
* /jakarta-validation-api-3-0-2-sources-jar/META-INF/maven/jakarta.validation/jakarta.validation-api/pom.xml
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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

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

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1.14 jcommander 1.82

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```

Found in path(s):

```
* /jcommander-1-82-sources-jar/com/beust/jcommander/IParameterValidator.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/validators/PositiveInteger.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/validators/NoValueValidator.java
*
 /jcommander-1-82-sources-jar/com/beust/jcommander/validators/NoValidator.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/IParameterValidator2.java
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* /jcommander-1-82-sources-jar/com/beust/jcommander/UnixStyleUsageFormatter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/IUsageFormatter.java
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* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/BigDecimalConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/DoubleConverter.java
*
 /jcommander-1-82-sources-jar/com/beust/jcommander/converters/StringConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/internal/Lists.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/IntegerConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/ParameterDescription.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/FloatConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/PathConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/IDefaultProvider.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/IStringConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/internal/Maps.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/Parameter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/IStringConverterFactory.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/Parameters.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/defaultprovider/PropertyFileDefaultProvider.java
*
 /jcommander-1-82-sources-jar/com/beust/jcommander/converters/BooleanConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/ParameterException.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/NoConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/ResourceBundle.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/FileConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/MissingCommandException.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/BaseConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/ISO8601DateConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/LongConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/URIConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/converters/CharArrayConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/internal/DefaultConverterFactory.java
*
 /jcommander-1-82-sources-jar/com/beust/jcommander/converters/InetAddressConverter.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/internal/Sets.java
* /jcommander-1-82-sources-jar/com/beust/jcommander/ParametersDelegate.java

1.15 jakarta-annotation-api 2.1.1

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* https://github.com/eclipse-ee4j/common-annotations-api

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

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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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```

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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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modification, are permitted provided that the following conditions
```

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*/
```
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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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.java
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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.

```
/*
* [The "BSD license"]
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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 {
/*
[The "BSD license"]
Copyright (c) 2010 Terence Parr
All rights reserved.
Redistribution and use in source and binary forms, with or without
```

```
 modification, are permitted provided that the following conditions
are met:
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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.
*/
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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 ~ Use of this file is governed by the BSD 3-clause license that
 ~ can be found in the LICENSE.txt file in the project root.
 -->
```

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* /antlr4-4-13-0-sources-1-jar/META-INF/maven/org.antlr/antlr4/pom.xml
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```
/*
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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.
*/

/** 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"
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.

```
/*
* [The "BSD license"]
*  Copyright (c) 2016, Mike Lischke
*  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.
*/
```

Found in path(s):
* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.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
*     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.
*/

/** 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
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
```

```
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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.
*/

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.

```
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*/

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)
  ;
```

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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g
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```

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```
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*/

/** 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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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_stop.java
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* /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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*/

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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```
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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">
>>
```

Found in path(s):

* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/depend.stg
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```
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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.

```
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*/

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.


```
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*/

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
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* /antlr4-4-13-0-sources-1-jar/org/antlr/v4/tool/templates/codegen/TypeScript/TypeScript.stg
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*  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
]
```

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

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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1.19 okio 3.6.0

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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
*
/okio-3-6-0-sources-jar/commonMain/okio/Buffer.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/BufferedSink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/Sink.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/BufferedSource.kt
* /okio-3-6-0-sources-jar/commonMain/okio/internal/Buffer.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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* /okio-3-6-0-sources-jar/commonMain/okio/ForwardingSource.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/SegmentPool.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/internal/Path.kt
* /okio-3-6-0-sources-jar/linuxMain/okio/LinuxPosixVariant.kt
* /okio-3-6-0-sources-jar/nativeMain/okio/PosixFileSystem.kt
* /okio-3-6-0-sources-jar/hashFunctions/okio/internal/Hmac.kt
*
/okio-3-6-0-sources-jar/nativeMain/okio/PosixVariant.kt
* /okio-3-6-0-sources-jar/commonMain/okio/HashingSource.kt
* /okio-3-6-0-sources-jar/nativeMain/okio/FileSource.kt
* /okio-3-6-0-sources-jar/appleMain/okio/ApplePosixVariant.kt
* /okio-3-6-0-sources-jar/nativeMain/okio/FileSink.kt
* /okio-3-6-0-sources-jar/commonMain/okio/FileSystem.kt
* /okio-3-6-0-sources-jar/commonMain/okio/HashingSink.kt
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* /okio-3-6-0-sources-jar/commonMain/okio/ForwardingFileSystem.kt
* /okio-3-6-0-sources-jar/commonMain/okio/ExperimentalFileSystem.kt
* /okio-3-6-0-sources-jar/nonJvmMain/okio/HashingSource.kt
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1.20 okhttp 4.12.0

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1.23 angus-activation 2.0.2

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1.24 jaxb-core 4.0.5

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1.26 txw2 4.0.5

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https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

JUnit (4.12)

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maven-compat (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-compat/
* Source:
https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core
(3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source:
https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

maven-resolver-api (1.1.1)

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maven-resolver-impl (1.1.1)

* License: Apache-2.0

maven-resolver-spi (1.1.1)

* License: Apache-2.0

maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings
 (3.5.2)

* License: Apache-2.0
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

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* License: Apache License, 2.0

plexus-archiver (3.5)

* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

* License: Apache-2.0

plexus-utils (3.1.0)

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* Project: http://www.megginson.com/downloads/SAX/
* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
*
 Project: https://maven.apache.org/wagon/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

xz for java (1.8)

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1.27 j2objc-annotations 3.0.0

1.27.1 Available under license :

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Maven project to build and deploy J2ObjC annotations.
-->

Found in path(s):
* /j2objc-annotations-3-0-0-jar/META-INF/maven/com.google.j2objc/j2objc-annotations/pom.xml

1.28 jaxb-runtime 4.0.5

1.28.1 Available under license :

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* Project home: https://projects.eclipse.org/projects/ee4j.jaxb-impl

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Source Code

The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
*
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* License: Custom license based on Apache 1.1

file-management (3.0.0)

* License: Apache-2.0
* Project: https://maven.apache.org/shared/file-management/
* Source:
  https://svn.apache.org/viewvc/maven/shared/tags/file-management-3.0.0/

JUnit (4.12)

* License: Eclipse Public License

JUnit (4.12)

* License: Eclipse Public License

maven-compat (3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-compat/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core
(3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source:
  https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-api (1.1.1)

* License: Apache-2.0

maven-resolver-connector-basic (1.1.1)

* License: Apache-2.0

maven-resolver-impl (1.1.1)

* License: Apache-2.0

maven-resolver-spi (1.1.1)

* License: Apache-2.0

maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings
(3.5.2)

* License: Apache-2.0
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

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* License: Apache-2.0
* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

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* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
*
 Project: https://maven.apache.org/wagon/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

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permitted.

1.29 commons-compiler 3.1.12

1.29.1 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
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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
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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=

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SHA-256-Digest: c7GR2rnbUk+f4SG+oHCp9FdAKxoqVKesN38XyFQWEbk=

Name: org/codehaus/commons/compiler/java8/java/util/Optional.class
SHA-256-Digest: W32nYlWVBYiEBja2XIsN1Iq2BnrzebjKuHTPBA7mERU=

Name: org/codehaus/commons/compiler/MultiCookable.class
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
ss
SHA-256-Digest: iuxi0gtsbwHdhGcvvHXB2ZwI1i5NGS9WUv0FdVXv6T4=

Name: org/codehaus/commons/compiler/util/iterator/Iterables$5.class
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=

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SHA-256-Digest: Bzf7xD7rSDoGcPMoLY/8mMcCqWHGzTopgBBmYq1APus=

Name: org/codehaus/commons/compiler/lang/package-info.class
SHA-256-Digest: EqKZiOPNP2EG/RQBp6yl+2j/MfigO0HE2+XeOSjb+cQ=

Name: org/codehaus/commons/compiler/util/iterator/IteratorCollection.cla
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Name: org/codehaus/commons/compiler/util/resource/ZipFileResourceFinder.
class
SHA-256-Digest: sOphxLr5U2orDT8VC8hnSJ5Ap4Fs157GThHNz4oClgo=

Name:
org/codehaus/commons/compiler/util/iterator/ProducerIterator.class
SHA-256-Digest: C9LbdyBRHMiPnMOdSppWv5Wr7oa6tZ7Warw8w+c/qfc=

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

SHA-256-Digest: SEW5e7l++Y1k7OeDaN5S4UYt1CpzoP/8R3XKc/dB0Io=

Name: org/codehaus/commons/compiler/util/resource/ResourceFinders$4.clas
s
SHA-256-Digest: YjS7jWfLzjUBhPloJjzYluTw7l06QzgyfRT78rYAvQw=

Name: org/codehaus/commons/compiler/samples/ScriptDemo.class
SHA-256-Digest:
g2nL2OzC6Ey05cJNjJMVyD+6EvM8yAjhJXZMNgyi/2I=

Name: org/codehaus/commons/compiler/util/resource/ZipFileResourceFinder$
1.class
SHA-256-Digest: HdsrK6I+aKU95gI2ibJTkixBpyrc/85ZZWg9BuqtPF4=

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:
xZUoZD8WaeS6f5C2bSWD9AYOp2j8+TEk7CHbDnWa1jU=

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
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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.
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Name: org/codehaus/commons/compiler/java8/java/util/stream/package-info.
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SHA-256-Digest: kTcAF1pQdiBpSVyMogGfsCR6e+PEbbGIm1XULCNvOi8=

Name: org/codehaus/commons/compiler/LocatedException.class
SHA-256-Digest: JeoWpqsowCKvH1RHc4W1gOyXl1VU950e5e4nMK3TKkI=

Name: org/codehaus/commons/compiler/java9/java/lang/module/ModuleFinder.
class
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=

Found in path(s):
* /commons-compiler-3-1-12-1-jar/META-INF/MANIFEST.MF

1.30 jandex 3.2.0

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1.31 kotlin 1.9.25-release-852

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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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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/FastMethodAnalyzer.kt
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- Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/OptimizationBasicInterpreter.java
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- Path: js/js.ast
  - License: BSD ([license/third_party/dart_LICENSE.txt][dart])
  - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,

- Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/FunctionInlineMutator.kt
  - License: BSD ([license/third_party/dart_LICENSE.txt][dart])
  - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,

- Path: js/js.parser/src/com/google
  - License: Netscape Public License 1.1 ([license/third_party/rhino_LICENSE.txt][rhino])
  - Origin: Originally part of GWT, (C) 2007-08 Google Inc., distributed under the Apache 2 license. The code is derived from Rhino, (C) 1997-1999 Netscape Communications Corporation, distributed under the Netscape Public License.

- Path: js/js.translator/qunit/qunit.js
  - License: MIT
([license/third_party/qunit_license.txt][qunit])
  - Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaefferer,

- Path: libraries/stdlib/src/kotlin/collections
  - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
  - Origin: Derived from GWT, (C) 2007-08 Google Inc.

- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
  - License: Apache 2 ([license/third_party/guava_license.txt][guava])
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- Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
  - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
  - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.

- Path: libraries/stdlib/js/src/kotlin/collections
  - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
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- Path: libraries/stdlib/native-wasm/src/kotlin/collections
  - License: Apache 2 ([license/third_party/gwt_license.txt][gwt])
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- Path: libraries/stdlib/js-v1/src/js/long.js

- License: Apache 2 ([license/third_party/closure-compiler_LICENSE.txt][closure-compiler])
- Origin: Google Closure Library, Copyright 2009 The Closure Library Authors

- Path: libraries/stdlib/js-v1/src/js/polyfills.js
- License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
- Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.

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- License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
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- Path: libraries/stdlib/wasm/internal/kotlin/wasm/internal/Number2String.kt
- License: Apache 2 ([license/third_party/assemblyscript_license.txt][assemblyscript])
- Origin: Derived from assemblyscript standard library

- Path: plugins/lint/android-annotations
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- Path: plugins/lint/lint-api
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- Path: wasm/ir/src/org/jetbrains/kotlin/wasm/ir/convertors
- License: MIT ([license/third_party/asmble_license.txt][asmble])
- Origin: Copyright (C) 2018 Chad
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- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
- License: Apache 2 ([license/third_party/aosp_license.txt][aosp])
- Origin: Derived from JetPack Compose compiler plugin code, Copyright 2019 The Android Open Source Project

- Path: libraries/stdlib/wasm/src/kotlin/text/FloatingPointConverter.kt
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- Path: libraries/stdlib/wasm/src/kotlin/math/fdlibm/
- License: SUN ([license/third_party/sun_license.txt][sun])
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- Path: kotlin-native/runtime/src/main/cpp/Utils.cpp
  - License: Boost Software License 1.0 ([license/third_party/boost_LICENSE.txt][boost])
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  - Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland

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- Path: third-party/java8-annotations/org/jspecify
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- Path: idea/idea-android/tests/org/jetbrains/kotlin/android/AndroidTestBase.java
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- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/allOpenSpring/src/org/springframework/stereotype/Component.java
- License: Apache 2 ([license/third_party/testdata/spring_license.txt][spring])
- Origin: Spring Framework, Copyright 2002-2007 the original author or authors.

- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/AndroidDaggerProject
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- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/target/test-classes/testProject/noArgJpa/src/javax/persistence/Entity.java
  - License: Eclipse Public License v1.0 ([license/third_party/testdata/eclipse_license.txt][eclipse])
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  - Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.

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- Path: libraries/tools/kotlin-gradle-plugin/src/common/kotlin/org/jetbrains/kotlin/gradle/targets/js/nodejs/Platform.kt
  - License: Apache License 2.0 ([license/third_party/gradle-node-plugin_LICENSE.txt](third_party/gradle-node-plugin_LICENSE.txt))
  - Origin: Copyright (c) 2013 node-gradle/gradle-node-plugin

- Path: libraries/tools/kotlin-test-js-runner/karma-kotlin-reporter.js
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  - Origin: Copyright (C) 2011-2019 Google, Inc. and Copyright (C) 2011-2013 Vojta Jna and contributors.

- Path: libraries/tools/kotlin-test-js-runner/mocha-kotlin-reporter.js
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   - Origin: Copyright (c) 2016 Jamie Sherriff

- Path: libraries/tools/kotlin-test-js-runner/src/utils.ts
  - License: MIT ([license/third_party/teamcity-service-messages_LICENSE.txt](third_party/teamcity-service-messages_LICENSE.txt)
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  - Origin: Copyright (c) 2013 Aaron Forsander and Copyright JS Foundation and other contributors <https://js.foundation/>

- Path: libraries/tools/kotlin-test-js-runner/src/teamcity-format.js

- License: MIT ([license/third_party/mocha-teamcity-reporter_LICENSE.txt](third_party/mocha-teamcity-reporter_LICENSE.txt)
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- Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig

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[jspecify]: third_party/testdata/jspecify_license.txt
[lombok]: third_party/testdata/lombok_license.txt
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1.32 commons-lang3 3.17.0

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1.34 react-lottie-player 2.1.0

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1.35 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

1.36 hibernate-commons-annotations 7.0.3.Final

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1.37 log4j-api 2.24.3

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1.39 annotations 13.0

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Found in path(s):
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/Contract.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Flow.java
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Found in path(s):
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/Nullable.java
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* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/NonNls.java
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Found in path(s):
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Pattern.java
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*
 /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/Identifier.java
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Found in path(s):
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/NotNull.java
* /annotations-13-0-sources-6-jar/org/jetbrains/annotations/TestOnly.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/MagicConstant.java
* /annotations-13-0-sources-6-jar/org/intellij/lang/annotations/JdkConstants.java

1.40 hdrhistogram 2.2.2

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1.41 janino 3.1.12

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Manifest-Version: 1.0
Created-By: Apache Maven Bundle Plugin
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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util,org.codehaus.commons.compiler.util.resource,org.codehaus.janino.ut
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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
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3.1,4)"
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
SHA-256-Digest: ofOSZ7cSaI1pNaa+jkN+04Y5KPqumbgpLIh9tZj8yKQ=

Name: org/codehaus/janino/UnitCompiler$35.class
SHA-256-Digest: OhFSTj6e5N2kZfgJdQ6AI4hKMO3zfabM0me3k0fpDSg=

Name: org/codehaus/janino/IClass$1.class
SHA-256-Digest: Yrk2Ls+qNEaM9zSLia065qbWbBzz63ROEGN4QKLLT/c=

Name: org/codehaus/janino/CodeContext$LocalScope.class
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Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$5.class
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Name: org/codehaus/janino/Java$PackageMemberEnumDeclaration.class
SHA-256-Digest: AURKKU5xbkA/yc6Ruyq9eI3LRhj8ZV2M25U/I25yQ5k=

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Name: org/codehaus/janino/Unparser.class
SHA-256-Digest: pRJxCCRS6Ur7OmmiuwqoW8XH1NmeEm5B6wSeu9Boopk=

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SHA-256-Digest: CIR/mf2SqylpYGdWlnHbsPuipPzKD+zYdcneyEbvHEU=

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Name: org/codehaus/janino/Java$LocalVariableDeclarationStatement.class
SHA-256-Digest: Zt8EotiACl4t+ujmkl9DR65mXVec/QN4vA5fqKpZ4Pk=

Name: org/codehaus/janino/util/ClassFile$ElementValue$Visitor.class
SHA-256-Digest: qZ5iJ1B1lNhfYTd8KBD49Z/S0EHGjvgOr47GLlfhZ7w=

Name: org/codehaus/janino/Java$InferredLambdaParameters.class
SHA-256-Digest:
gjBe4DkgIsuVRddk80/4JnYeg1XjR/uxKrnnLJUOBQ0=

Name: org/codehaus/janino/Unparser$5.class
SHA-256-Digest: akh67rG87pZz0btPomqdfBAUkc2oBmFjHNNyxpCtQ/Q=

Name: org/codehaus/janino/CodeContext$FourByteOffset.class
SHA-256-Digest: SKlH139Zt1pgu+aZ9VpdIg5RU30KyqnyUp8fEGpJKAM=

Name: org/codehaus/janino/Java$TextBlock.class
SHA-256-Digest: NYQe408EYLc1+X9HeFcwIFQSKWKLi/8cJiyYZpIaV64=

Name: org/codehaus/janino/Java$IfStatement.class
SHA-256-Digest: TmV2zBJGzHThVbdm37hTvIiMH07kMEhs5fh4juNhBvg=

Name: org/codehaus/janino/Java$BooleanRvalue.class
SHA-256-Digest: u0J3e2IZjrjWUNyAM98hSWxfJcXX8YBQ0ef6P2Evg1I=

Name: org/codehaus/janino/UnitCompiler$19$1.class
SHA-256-Digest: p+y6YKMeJ4pI9pXdPIFZwh/ySYmCxUZrE9Gq/8DZXHg=

Name: org/codehaus/janino/Java$FieldAccess.class
SHA-256-Digest: prFpeSMsPW5+UvxirUIGdafUnmiN9doHzCpML1yZNSk=

Name: org/codehaus/janino/Java$LocalClassDeclarationStatement.class
SHA-256-Digest: 6TJRJgk+412gNfQcu1ZmudRWDRPmiRHh6k/YWdGTXpQ=

Name: org/codehaus/janino/Java$DoStatement.class
SHA-256-Digest:
dpk5onuDwRNcDl1i+GmvP7u5QvdbKpXYY2GxzTXhz74=

Name: org/codehaus/janino/Java$LambdaExpression.class
SHA-256-Digest: OKC3RL+moKU5cogc7AtEivscq3oyp0zQkkT8c/F8q9Y=

Name: org/codehaus/janino/util/DeepCopier$14.class
SHA-256-Digest: +ujmf/IrjRR0p/EoVKN7DMs+Z57mwJW9dqf2O+F6r/8=

Name: org/codehaus/janino/Java$AbstractAnnotation.class
SHA-256-Digest: 9hDnHtGS7EvzvwrBW9sDz0m4MlT8rE8aQAy/7U20H3w=

Name: org/codehaus/janino/Java$SimpleConstant.class
SHA-256-Digest: enhgmHehsbvBZuoGoMKmBRLyJaH17KfjbpRJUupJCw4=

Name: org/codehaus/janino/SimpleCompiler$2.class

SHA-256-Digest: 92cmHLsOMT3KyvDK5i31TXfVlOQVV8NMwncs+agg0Q4=

Name: org/codehaus/janino/util/DeepCopier$6.class
SHA-256-Digest: /1DxJrW5a7f5UA8h2CAslvmuYZCJZVTvg6UZBTP5amg=

Name: org/codehaus/janino/Java$MethodDeclarator.class
SHA-256-Digest: JoW0uQUEH23x8alIgW70mXT0LilqXytfoXQJjlyJ2o0=

Name: org/codehaus/janino/Java$AbstractCompilationUnit$SingleStaticImpor
tDeclaration.class
SHA-256-Digest: tg7ZGm6qs3obTN7x6u6FkBGItEivVUKT44gg1+pziBc=

Name:
org/codehaus/janino/Java$EnumConstant.class
SHA-256-Digest: mt97v7IB4RtbDbGzm3ovo7uqCl+WIBSnh3qBRpx1ick=

Name: org/codehaus/janino/util/AbstractTraverser$10.class
SHA-256-Digest: KATysAVa1Y9JtAbUPJfgCS4aHSjIMN4hjJBxSBBM3UQ=

Name: org/codehaus/janino/util/charstream/package-info.class
SHA-256-Digest: 8+DmwWYRNX9qF9nBUeORyHnKCJxoEX2PS4q3MV0Go3o=

Name: org/codehaus/janino/UnitCompiler$Compilable2.class
SHA-256-Digest: 1YW3CaYw5VPK1lrjr6UE8o7lKD7ZY8EjDkgDTPgthFI=

Name: org/codehaus/janino/util/Annotatable.class
SHA-256-Digest: kAhf6MOHHkP8k+pLb7zzYOauUtkDe8Uaw0X5qG+EDKs=

Name: org/codehaus/janino/Java$UnaryOperation.class
SHA-256-Digest: UFF8MEGhNAvr9Ad+lAHnogBkV3s28zXt+SA0ykRPKN4=

Name: org/codehaus/janino/JavaSourceClassLoader$1.class
SHA-256-Digest: yVV9YnB58nTpRCsOC4BZ9Jw5Zsv/NS7RX5C1sYav4wc=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$SameLoca
ls1StackItemFrame.class
SHA-256-Digest: VnJwTb/mEuTf4tqBbfBYnn2IMit8jjNiZOxynU9nZeA=

Name:
org/codehaus/janino/Java$AbstractTypeDeclaration.class
SHA-256-Digest: 6qQWOCYUDGgBnjyW8WZB3kqwJLwON0JrWXiyQwFQeQQ=

Name: org/codehaus/janino/Java$ModuleDirective.class
SHA-256-Digest: whIVIwIAFrEvDLQwJlLR24gpIQLdpbgI0wkFqiuOjZs=

Name: org/codehaus/janino/ClassBodyEvaluator.class
SHA-256-Digest: vfsBX6M79dcz1NVtnZMw5gYb9EQ45DBzjZ8ADLZH3xA=

Name: org/codehaus/janino/FilterWarningHandler.class
SHA-256-Digest: GyTOX7BRUpBhvPstQpSpqmZgNqO0qc1goz5p4OHwQL0=

Name: org/codehaus/janino/Visitor$LvalueVisitor.class
SHA-256-Digest: VS/YAMKWizpF1t8/dZop80NudH6wxw8nyUEm/bWaoA4=

Name: org/codehaus/janino/Java$OpensModuleDirective.class
SHA-256-Digest: OXb3PEF9wmgmUoi8/5FH30liQe7+WnNdUSCZuFvA+M8=

Name: org/codehaus/janino/Java$AssertStatement.class
SHA-256-Digest: lQ/6nhzP47oYyEW0aK7sOZv3AefV4j2GP+1TNuo+4+A=

Name: org/codehaus/janino/Java$AbstractClassDeclaration.class
SHA-256-Digest: vKB1jao6laYtbYiiNaK7RLUvLxibpGrJyUD1DDdvORk=

Name: org/codehaus/janino/UnitCompiler$16$1.class
SHA-256-Digest:
7QRKkajbqevz3tTwughZfABXCIr6vWFapRBztPTnQLY=

Name: org/codehaus/janino/util/DeepCopier$12.class
SHA-256-Digest: 7v1GvZUfBZhtXSEPBNlNnipLXRdOqU6G5ODptWBQaww=

Name: org/codehaus/janino/Java$FunctionDeclarator.class
SHA-256-Digest: 9Ns3EUMi3vyNRthfFe5N2SM4OR8lSgYS9uSRUnAfMWs=

Name: org/codehaus/janino/Java$ProvidesModuleDirective.class
SHA-256-Digest: LFR+ayl22PVOhIFr0WsuoanJoNQI7GJ6B8TwKf+kqnU=

Name: org/codehaus/janino/Java$Located.class
SHA-256-Digest: uv2T9ySM3zDZW6yzfGPhTJkN9X0tOvxr5vpxuCmzQY4=

Name: org/codehaus/janino/util/ClassFile$ConstantIntegerInfo.class
SHA-256-Digest: 50HLTVpipoXiCXnvhK2HSHXShFmKTOHl2P062R9Z0/w=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$7.class
SHA-256-Digest: UomHgTPsDqjcDUTAlfHViA1qTJvU/HcBXVY1Tc48D9U=

Name: org/codehaus/janino/Java$UsesModuleDirective.class
SHA-256-Digest: HJ2FhYkG1sl7N8V+D6DiXaJImWcSzaPzS0M6Kqaxoxw=

Name: org/codehaus/janino/Java$BreakableStatement.class
SHA-256-Digest: Mh6YUwh3FWYuXgMZkIw+VcYH2y06ZhyYmYIkW4XNkBw=

Name:
org/codehaus/janino/Compiler$4.class
SHA-256-Digest: MvkKdgo+8Ylp0JYGz9s6qvGvIBhlRaFe5pSBcdCZMeI=

Name: org/codehaus/janino/Java$Type.class

SHA-256-Digest: vn8Xftrh48xGQEkWbFAs/ksAbAHpAbTfzrKH2/Ba4i8=

Name: org/codehaus/janino/samples/DeclarationCounter.class
SHA-256-Digest: xO5w7Ith06+Oc3HuX+JIzVOIUuQE2tkd5qRM86z916U=

Name: org/codehaus/janino/util/DeepCopier$8.class
SHA-256-Digest: L+E/RFdmPOnOu15OsdznDIBd4Opqpq4aLCfVeYOPURE=

Name: org/codehaus/janino/UnitCompiler$30.class
SHA-256-Digest: kH8nhN7PMvizQ2cdHPkdfPbAVPuFvVTktKN01Ojk4V8=

Name: org/codehaus/janino/util/ClassFile$ArrayElementValue.class
SHA-256-Digest: 5GV6t6PWBWCgHawQyIT6yTYEBmkj3R69AacucrVKLCs=

Name: org/codehaus/janino/JavaSourceIClassLoader.class
SHA-256-Digest: i+E3mhf1fQhiuMDfZMPu/gK3SlOrJt7mmNWTsDv//iw=

Name: org/codehaus/janino/util/ClassFile$InnerClassesAttribute.class
SHA-256-Digest: rI307bj9eO6LSrRcSuK+LNZs37S7qLosGbNWtA5ihB4=

Name: org/codehaus/janino/Java$ModuleDeclaration.class
SHA-256-Digest:
zq9LFz4x5hjeeb+GTr0nJrNESEgMX/T2tqrUs8ilypU=

Name: org/codehaus/janino/UnitCompiler$28$2$1.class
SHA-256-Digest: I6qkA7qLAaCwVGJBiADAl/t706p1nMLGoTzIKOT81qw=

Name: org/codehaus/janino/util/AbstractTraverser$2.class
SHA-256-Digest: Sc66KYHIBKxC3ue+Uux+lzX+aFtn0Io0yuOqigkAGz8=

Name: org/codehaus/janino/tools/HprofScrubber$Sample.class
SHA-256-Digest: 6NXzmTtIzrkVOUX+sAiygvy4H6b9P3EaIGrB3y2lfBw=

Name: org/codehaus/janino/Java$ElementValuePair.class
SHA-256-Digest: aJpUBVa7yKf4rN8aO7f3ehapkc1szSJ2QshLbK7Cifc=

Name: org/codehaus/janino/Java$ArrayLength.class
SHA-256-Digest: r9g8VPraERpI5cefMWMYIMwSUaaxgdtHgPL5oII2vx8=

Name: org/codehaus/janino/Java$TypeParameter.class
SHA-256-Digest: Bn9OBfjhwW4bn3MO4ozlp/+LPZtagfDoU6AltCxIHoM=

Name: org/codehaus/janino/UnitCompiler.class
SHA-256-Digest: lpRdEsdRoBhgLFRI3V0eE7PUOxTWt5XWXzgdW+VeOSk=

Name: org/codehaus/janino/Java$TryStatement$VariableAccessResource.class
SHA-256-Digest: hXXOP9pe9mht68JZ+enKdxPVOfS45o0wi6wzlDiRD4k=

Name:
org/codehaus/janino/Unparser$2.class
SHA-256-Digest: 0d6eqQu9orUr2G3+VST5XRCZ/74MVntvVnZ6hCnPeRQ=

Name: org/codehaus/janino/Java$AnonymousClassDeclaration.class
SHA-256-Digest: Mh5nVdY34zDm3edMn+B6A6Z37pqqQ4E0/ODIC8BQZlU=

Name: org/codehaus/janino/Java$ExportsModuleDirective.class
SHA-256-Digest: ZcXSzNKrbky4eg5OqoWiAGdb28Szm6qlcJCwyT8vb5Q=

Name: org/codehaus/janino/Java$ReferenceType.class
SHA-256-Digest: 3g6ZsN7siyqdc/kw3HRFlu3i6ofy/xZqX/H0Brh9/68=

Name: org/codehaus/janino/util/signature/SignatureParser$ArrayTypeSignat
ure.class
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Name: org/codehaus/janino/util/AbstractTraverser.class
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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+017UIbSCfkkFagW14/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
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WseRyhHzYF7l+Pdjop0SKTog1/yDPs5vRUB9fFcL2Kw=

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Name: org/codehaus/janino/util/ClassFile$ConstantMethodrefInfo.class
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Name: org/codehaus/janino/Java$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=

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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$7.class
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Name: org/codehaus/janino/Java$NewArray.class
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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$ConstantDoubleInfo.class
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Name: org/codehaus/janino/Java$TryStatement$LocalVariableDeclaratorResou
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Name: org/codehaus/janino/Java$BooleanLiteral.class
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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
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Name: org/codehaus/janino/Parser$1.class
SHA-256-Digest: yRWpLxE73dC1FdMAPzfjrMaEsS0ghP63LWxd1S9jrP0=

Name:
org/codehaus/janino/ExpressionEvaluator.class
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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$1.class
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Name: org/codehaus/janino/Visitor$LambdaBodyVisitor.class
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Name: org/codehaus/janino/ClassFileIClass$5.class
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Name: org/codehaus/janino/util/DeepCopier$16.class
SHA-256-Digest: yqGfk0iW/yj2RLpHY1YCJjRZ0Pbc/h+5ILuEamt4i/U=

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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
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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=

Name: org/codehaus/janino/Compiler$4$1.class
SHA-256-Digest: A6d5KKd/jkczeOmbrsxFZaOi4Ih2jVen5x13cree9LE=

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$SyntheticAttribute.class
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Name:
org/codehaus/janino/util/ClassFile$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
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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=

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Name: org/codehaus/janino/CachingJavaSourceClassLoader.class
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Name: org/codehaus/janino/UnitCompiler$12.class
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Name: org/codehaus/janino/util/ClassFile$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
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Name: org/codehaus/janino/util/ClassFile$ElementValue.class
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Name: org/codehaus/janino/util/ClassFile$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
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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=

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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
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Name: org/codehaus/janino/UnitCompiler$42.class
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Name: org/codehaus/janino/Java$ThrowStatement.class
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Name: org/codehaus/janino/Java$ConstructorInvocation.class
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Name: org/codehaus/janino/ScriptEvaluator$Script.class
SHA-256-Digest: WyzQGWfT3twvSfQK7OQ4QIRR2Jbgrra9cWTI83+NzTg=

Name: META-INF/maven/org.codehaus.janino/janino/pom.xml
SHA-256-Digest: exDpA00jkVcvSFkN7L5ncZ/a7kPpjgCu/zHIAR+3mYI=

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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=

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Name: org/codehaus/janino/IClass$IField.class
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Name:
org/codehaus/janino/Java$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=

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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=

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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
ass
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
SHA-256-Digest: 6/eDw6WPp7a/8TJ1BbLBNCj1kxV9OOxWXh5ZduH9IPQ=

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
SHA-256-Digest: jxPdw+2akIlpZkpcOI5blLUz7GelhdfT4yopwz+kv9A=

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
SHA-256-Digest:
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
SHA-256-Digest: PZunTg5AgRPDLSaGLFs6V6IZOAJoAmaXHTRy49NLm6M=

Name: org/codehaus/janino/util/DeepCopier$7.class
SHA-256-Digest: AvkgYu7fP/+dsJpXSDT3G0ijrIjl8OtCSlYCtRh/zE0=

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org/codehaus/janino/IClassLoader$1$1.class
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Name: org/codehaus/janino/util/ClassFile$ConstantElementValue$Visitor.cl
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Name: org/codehaus/janino/util/signature/SignatureParser$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
SHA-256-Digest: UCiTooPD8Fml+rYIo19KdyXSigPhBRTgJaU5bBT8ozo=

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:
Ut2DFMhrxn4uEPeu6882UkBqb0o4bGxBm4CyAiJGEkc=

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
SHA-256-Digest: 4cSUzheuZ40ZO95aWbQGApWX/O05qi2lO4BoHh2sx38=

Name: org/codehaus/janino/util/DeepCopier$5.class
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Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$Verifica
tionTypeInfo.class
SHA-256-Digest: +oUdLZl1chembBotCpG31/3+/xgtlguniBHDU12zXZo=

Name: org/codehaus/janino/UnitCompiler$39$3.class
SHA-256-Digest: QGm2j6nCPPBpG0LI5ftX9dkG8mr6Q8ljx0DsH+nEM1Y=

Name: org/codehaus/janino/Unparser$3.class
SHA-256-Digest: +5H9Ffvk7x5LuIZpCCxp9GsAm+ZKWYiK2pX1a37FGBI=

Name:
org/codehaus/janino/Java$ArrayAccessExpression.class
SHA-256-Digest: D/Gp48KeAEnF9ZhiXytWdsn38OTpTOgx0bCNxMUdBBY=

Name: org/codehaus/janino/ReflectionIClass$3.class
SHA-256-Digest: jBu7jNfj54jhc2QQ+88S4ZBIHAMoGr7ZFI8lwu9cKR8=

Name: org/codehaus/janino/util/ClassFile$ConstantMethodTypeInfo.class
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Name: org/codehaus/janino/Unparser$18.class
SHA-256-Digest: OApniccT6/DqWb5RtgBFbGN1/vgEkFumufg9nF3+uPo=

Name: org/codehaus/janino/util/signature/SignatureParser$FormalTypeParam
eter.class
SHA-256-Digest: 0my8rbbAhtctWC0sCYJQOlaPyAQxqTx9WuYqOTBTyvA=

Name: org/codehaus/janino/Unparser$12.class
SHA-256-Digest: 3qe4+WvKHToARSnn+LMY9Mu8EGKDksi1+AIpFiA429I=

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
SHA-256-Digest:
ptP1TJxnZvBzgI11Nj3mwhTKs5GvvEx8VLZu67FfgN4=

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
SHA-256-Digest: RlcMUOUAn6Kcb6lE6j0i4EpsRc4Wrh0oO+D20Mk2cRw=

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
SHA-256-Digest: Hkm5aPHr+4QVlnyBmiig2J/jBsqDKzidSf46qSTXtKs=

Name:
org/codehaus/janino/util/ClassFile$ClassElementValue.class
SHA-256-Digest: VYB7RRvW1owTkb5AfNWQmJOX8FgisUoX6N8dLTv3bVU=

Name: org/codehaus/janino/util/DeepCopier$4.class
SHA-256-Digest: yKu1ya3uxJ39ikJ/sW91oI5BZdGHkv/8Xeo1SJzM5w0=

Name: org/codehaus/janino/Java$PackageMemberClassDeclaration.class
SHA-256-Digest: 83LyzvQNdeZHqrOgGlvCB/WO45qr/f+IV7lp6lhGhwA=

Name: org/codehaus/janino/Unparser$17.class
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=

Name: org/codehaus/janino/Java$NewAnonymousClassInstance.class
SHA-256-Digest: eK3v5i5lVx6HydDqgIon8l+nFwQZfM/9flu56dXXdzs=

Name: org/codehaus/janino/util/AutoIndentWriter.class
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ymfI+HtKCAuUs8Eh5ZPsbvTVxEVmvfVlr0gjLbwbIcU=

Name: org/codehaus/janino/util/signature/SignatureParser$TypeArgument$Mo
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=

Name: org/codehaus/janino/Java$MemberAnnotationTypeDeclaration.class
SHA-256-Digest: VJy/g1HhET0zcFBE45PQ/PD9uQfaRn4zlCA+wIV30nA=

Name: org/codehaus/janino/Java$AlternateConstructorInvocation.class
SHA-256-Digest: W6+G/BjVb1ai111r0/z4/uDTPCo8t5bI6yU4xUB4vek=

Name: org/codehaus/janino/UnitCompiler$39.class
SHA-256-Digest: gj9clXVloeK8Sedd51j3IbcQV+9q1pOt9QK0BUXpUsE=

Name: org/codehaus/janino/IClassLoader$1.class
SHA-256-Digest: or4jnCaL8z8l8xUCUldBywIocF6Kh0GZ9nY8eEY/tu8=

Name: org/codehaus/janino/Java$TryStatement$Resource.class
SHA-256-Digest: t0JrNyL5GxIQENg9QW3tNKsULKPsZRb4hoo3japkQFU=

Name:
org/codehaus/janino/Parser$ClassDeclarationContext.class
SHA-256-Digest: QHkFxYr4PkxQEFCEhD+qyldc+Kg3jb29hiE3bARkqqI=

Name: org/codehaus/janino/Visitor$TypeBodyDeclarationVisitor.class
SHA-256-Digest: xbx7sGc9ymbYC0h0CfPxwJK1ClTpTkRDXwNUWq0Q5Lc=

Name: org/codehaus/janino/UnitCompiler$32.class
SHA-256-Digest: 8bCGfmCtygRLJxRlcJ4GuejuIEcsgTIEPh1420JaXpw=

Name: org/codehaus/janino/util/ClassFile$ConstantInvokeDynamicInfo.class
SHA-256-Digest: pqY3S8iRZdX9T4wFw7F/dAkvwWExZbGbjM9YdGWH17s=

Name: org/codehaus/janino/util/ClassFile$ConstantInterfaceMethodrefInfo.
class
SHA-256-Digest: rsbIwabF9DBGYqZD4rh8fgBV84L8zD5/k/ITNkwHFts=

Name: org/codehaus/janino/util/ClassFile$ConstantStringInfo.class
SHA-256-Digest: Shk85ao3rZGkVHV9nQPbMoHHZtuZ6iIQ2F2pHAgKjcY=

Name: org/codehaus/janino/util/ClassFile$LineNumberTableAttribute.class
SHA-256-Digest: 7iws4y5PFAxnmhLiDsETe/DzLEEYDZAOgUz3BYDFIKI=

Name: org/codehaus/janino/ReflectionIClass.class
SHA-256-Digest: 2V7QN2I5GVF/HC+Z7Ua+BxpedSPO8XVlbu9l87+bvSs=

Name:

org/codehaus/janino/UnitCompiler$44.class
SHA-256-Digest: eOQh9+jnw7ch9wEKNTsz9o7/0eP2SUigXCtDAMwyYcE=

Name: org/codehaus/janino/util/signature/SignatureParser$FieldTypeSignat
ure.class
SHA-256-Digest: N2+NuWFHZ1RZx9496fAF1ZJGvEzPD0HDUQakUsNdl7M=

Name: org/codehaus/janino/UnitCompiler$39$2.class
SHA-256-Digest: v0C4cp8IgEULwkoz0DWXWtQqavmJ1AU5JJB9AlQ8i3g=

Name: org/codehaus/janino/CodeContext$LineNumberOffset.class
SHA-256-Digest: O3mJ1vFKOtPfeHLsUURK+RmK3MwsizsYZdUvNAqRZuQ=

Name: org/codehaus/janino/Visitor$ModifierVisitor.class
SHA-256-Digest: 9pdPTYi7LL4bTvZ760sgSen3liSLffyzNRXWMVzlcu8=

Name: org/codehaus/janino/util/DeepCopier$3.class
SHA-256-Digest: Sq9J24/wotW8jCZm1evlmXOsPqLy6zXBKgwZe7CO/b8=

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SHA-256-Digest: SP+ldU26mvhPV+u3S3munJ3ujy3Ytu39H9iDy2bLrkI=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$1.class
SHA-256-Digest: T8YPT6zdg0vlRWJucMcGZiOJgm1eAaWq9gNViDBv10U=

Name:
org/codehaus/janino/Java$ParenthesizedExpression.class
SHA-256-Digest: BGBQABHEibotPB3LvvRUSbbkwGIUKkfN/4Gb/H3OXYs=

Name: org/codehaus/janino/CodeContext$1.class
SHA-256-Digest: qaAFzSTCogLf8JdpXvIazHF3MHqh2Lgp55hDg1qnvAo=

Name: org/codehaus/janino/Unparser$11.class
SHA-256-Digest: ZHsi4ATRMDrXJmanhz9EhofYht7ZRIrVDAzguwbpt4Y=

Name: org/codehaus/janino/Java$TypeArgument.class
SHA-256-Digest: H/vDjlhfHyEod0kFkCG9GHKt5IoXwHMv/sQuwtMAAEM=

Name: org/codehaus/janino/UnicodeUnescapeReader.class
SHA-256-Digest: 9hTrTbAbkflug8d3v+Wm7qIueEQRbTp3D+9P6Bjna+g=

Name: org/codehaus/janino/Java$AbstractCompilationUnit$SingleTypeImportD
eclaration.class
SHA-256-Digest: l3yDE+hL5cfFj/pjjJdrUUsPnn6jXjpeUJzvfXDwayg=

Name: org/codehaus/janino/UnitCompiler$34.class
SHA-256-Digest: C8uMLkxHJDgGQnQkkqtlKVVsyxRfii8j+6sf87qaht4=

Name: org/codehaus/janino/Java$ClassLiteral.class
SHA-256-Digest: F4GlvUSaWMRUN8Se1YyGqBgJINi2L5sENlQuiU8mgcs=

Name: org/codehaus/janino/Java$DocCommentable.class
SHA-256-Digest:
guresSKq91gbKI6MgTs24rNB10lqkTsnBkKJzO2Lwm4=

Name: org/codehaus/janino/util/ClassFile$FloatElementValue.class
SHA-256-Digest: igRR0tgDzu4rAAm2LNZpn4N5+rwWHM7SwEievgSCKCQ=

Name: org/codehaus/janino/Java$PackageMemberInterfaceDeclaration.class
SHA-256-Digest: bco4+JDNeCqGZ/olBi7JzP70nT0YrBYQSGUiv/wFDTQ=

Name: org/codehaus/janino/util/ClassFile$StackMapTableAttribute$StackMap
Frame.class
SHA-256-Digest: qsxC23UW9eAMGTiHPBbgUQ5qyqJx+UrrW47GZvGJmtE=

Name: org/codehaus/janino/Java$AbstractCompilationUnit.class
SHA-256-Digest: qM5q3EOODLl/kCgaS1o4VRLlQyTrj3JWlsyPaXGVnR0=

Name: org/codehaus/janino/IClass$IMethod.class
SHA-256-Digest: yqazWVlLBHVZBKmJP+0TtWS1qpu1LETgun55QS3nyeg=

Name: org/codehaus/janino/Parser$InterfaceDeclarationContext.class
SHA-256-Digest: 0+nZUT7HdKruXB6/LvhnQXmPDB08kKoHiqpncaiHK+c=

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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lqKNlVSv3By/EGoxZxaMoXfWocgJ23cIjDj0amCYFmA=

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$ExceptionsAttribute.class
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Name: org/codehaus/janino/util/ClassFile$ByteElementValue.class
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Name: org/codehaus/janino/package-info.class
SHA-256-Digest: K+bX0VleOVD0juK0A/QkjJ6dQ5Cd0y9CDdv4A/4qiyg=

Name: org/codehaus/janino/TokenStream.class
SHA-256-Digest: +xgV7207fiBSa/53A5naULgsuxsiBPvG+0fbwydKoWI=

Name:
org/codehaus/janino/util/Traverser.class
SHA-256-Digest: Vxpy4gyEFZSC5+4hWE9YdeT9dKIX30bN9CD9JFK3tlo=

Name: org/codehaus/janino/UnitCompiler$29.class
SHA-256-Digest: OHjX4Fn/QvuFDnvyhBBKeEcco0FP4ULg/A0dK6Kwxsw=

Name: org/codehaus/janino/util/AbstractTraverser$7$2.class
SHA-256-Digest: 9vIxiIp5knwP2UQlqV40nTglsBKNubCOXdmkJ/26T3w=

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
SHA-256-Digest: iGAuGSmL8IvNb8r+L60K8O0lYEvNEPkfJf4mZmdE9ZA=

Name: org/codehaus/janino/UnitCompiler$Compilable.class
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Name: org/codehaus/janino/Java$LocalVariable.class
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Name: org/codehaus/janino/Unparser$13.class
SHA-256-Digest: gCpVUBqD2ZMoq69Z30zWWBvnzTQeF6SQ1+TYM8Jw5Kw=

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org/codehaus/janino/Java$LocalClassDeclaration.class
SHA-256-Digest: uu3qjniESATYlNQjrAQUoN+cpogE915eP5dY5FZBeAE=

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Name: org/codehaus/janino/UnitCompiler$40.class

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$NewClassInstance.class
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Name: org/codehaus/janino/util/ClassFile$ConstantMethodHandleInfo.class
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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=

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Name: org/codehaus/janino/UnitCompiler$39$1.class
SHA-256-Digest: 8Q8NRh/OIA8mJIOk0VRvHPi6epTogUQQ2fE38Q+f0uI=

Name: org/codehaus/janino/Java$ArrayInitializer.class
SHA-256-Digest: vzMD/LEmqHgDpVPnfNZ6TKfxLS8mq459Z42frA+pBho=

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=

Name: org/codehaus/janino/util/ClassFile$CharElementValue.class
SHA-256-Digest:
26X6p/2zDPpTu7+P1k4ALZTa6ihGwkWc910x2Yuf25Q=

Name: org/codehaus/janino/IClass$PrimitiveIClass.class
SHA-256-Digest: Xe62oauLQu+SU2IhnK8+P01jC3cUmu99oioNGwAZDjk=

Name: org/codehaus/janino/util/AbstractTraverser$7$1.class

SHA-256-Digest: HMqlF23YeSrwVoiKzS6yy27fpPCYcattEvjFEbeVzrA=

Name: org/codehaus/janino/Java$FormalLambdaParameters.class
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Name: org/codehaus/janino/Java$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
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Name:
org/codehaus/janino/util/ClassFile$DoubleElementValue.class
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SHA-256-Digest: raDDo8co0U6GprI3T+pM2jlLACOsHcogUDA23vjw60U=

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SHA-256-Digest: jaSsgc280fn0e65PB3WsFezQfkq5XzbM0zeijNxUzRc=

Name: org/codehaus/janino/Java$MemberInterfaceDeclaration.class
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Name: org/codehaus/janino/util/ClassFile$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
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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

1.42 hypersistence-tsid 2.1.1

1.42.1 Available under license :

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* /hypersistence-tsid-2-1-1-sources-1-jar/META-INF/maven/io.hypersistence/hypersistence-tsid/pom.xml

1.43 hypersistence-utils-hibernate-63 3.7.3

1.43.1 Available under license :

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1.44 log4j-to-slf4j 2.24.3

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1.46 javax-activation 2.1.3

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1.47 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
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* /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
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/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/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
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/tokens/TagToken.java
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* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/serializer/NumberAnchorGenerator.java
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* /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
*
 /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
* /snakeyaml-2-4-sources-jar/org/yaml/snakeyaml/nodes/AnchorNode.java
* /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
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 /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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* /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

1.48 jul-to-slf4j 2.0.17

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1.49 failureaccess 1.0.3

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1.50 logback-core 1.5.18

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Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/sift/NOPSiftModelHandler.java
* /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
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/ImplicitModelHandler.java

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Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/EnvUtil.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/status/StatusUtil.java

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Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/SizeAndTimeBasedArchiveRemover.java
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/util/StatusPrinter.java
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Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/MockInitialContextFactory.java
* /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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Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/RollingFileAppender.java
* /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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Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/ModelHandlerBase.java
* /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
*
/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
*
/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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* /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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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/model/processor/DefaultProcessor.java
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* /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
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 /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
*
 /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
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/spi/ContextAwareBase.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/FormatInfo.java
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* /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
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/pattern/color/GrayCompositeConverter.java
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* /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
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* /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/joran/spi/EventPlayer.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/encoder/Encoder.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/recovery/RecoveryCoordinator.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
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/encoder/ByteArrayUtil.java
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* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/rolling/helper/CompressionStrategyBase.java
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Found in path(s):
* /logback-core-1-5-18-sources-jar/ch/qos/logback/core/testUtil/XTeeOutputStream.java
* /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

1.51 react-dom 19.1.0

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1.52 jna 5.17.0

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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

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

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

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU

operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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

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

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

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Ty Coon, President
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That's all there is to it!

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Modified by Atlassian

The binary file of the original library has been modified by Atlassian in such way that classes have changed their package names from 'com.keypoint/org.jfree' to 'clover.com.keypoint/clover.org.jfree'. This was necessary to avoid potential name conflicts during instrumentation of a code using the original library when using Clover. No source code of the original library was modified.

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Version 3, 29 June 2007

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

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

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No source code of the original library was modified.
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```

Found in path(s):
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/Keep.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/Modifier.java

* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/InlineMeValidationDisabled.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/InlineMe.java
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* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/NoAllocation.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/concurrent/LockMethod.java
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* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/DoNotCall.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /error-prone-annotations-2-38-0-sources-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
*

/error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java
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Found in path(s):
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/RestrictedApi.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/DoNotMock.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/CompatibleWith.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/FormatString.java
*
/error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/FormatMethod.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/MustBeClosed.java
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Found in path(s):

```
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/Immutable.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/Var.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
*
 /error-prone-annotations-2-38-0-sources-jar/module-info.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/ForOverride.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /error-prone-annotations-2-38-0-sources-jar/com/google/errorprone/annotations/CompileTimeConstant.java
```

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Found in path(s):
* /error-prone-annotations-2-38-0-sources-jar/META-INF/maven/com.google.errorprone/error_prone_annotations/pom.xml

1.65 jctools-core 4.0.5

1.65.1 Available under license :

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* /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

1.66 hikaricp 6.3.0

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Manifest-Version: 1.0
Bundle-License: https://www.apache.org/licenses/LICENSE-2.0
Bundle-SymbolicName: io.netty.common
Built-By: root
Bnd-LastModified: 1748943466271
Specification-Title: Netty/Common
Implementation-Vendor-Id: io.netty
Bundle-DocURL: https://netty.io/
Import-Package: sun.misc;resolution:=optional,com.oracle.svm.core.anno
tate;resolution:=optional,io.netty.util;resolution:=optional,io.netty
.util.concurrent;resolution:=optional,io.netty.util.internal;resoluti
on:=optional,io.netty.util.internal.logging;resolution:=optional,java
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ution:=optional;version="[1.2,2)",org.apache.log4j;resolution:=option
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spi;resolution:=optional;version="[1.7,2)",reactor.blockhound;resolut
ion:=optional,reactor.blockhound.integration;resolution:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.6))"
DynamicImport-Package: *
Export-Package: io.netty.util;uses:="io.netty.util.concurrent,io.netty
.util.internal";version="4.1.122",io.netty.util.collection;version="4
.1.122",io.netty.util.concurrent;uses:="io.netty.util.internal";versi
on="4.1.122",io.netty.util.internal;uses:="io.netty.util,io.netty.uti
l.concurrent,io.netty.util.internal.logging,javax.security.cert,react
or.blockhound,reactor.blockhound.integration";version="4.1.122",io.ne
tty.util.internal.logging;version="4.1.122",io.netty.util.internal.sv
m;version="4.1.122"
Bundle-Name: Netty/Common
Build-Jdk-Spec: 1.8
Implementation-Title: Netty/Common
Bundle-Description: Netty is an asynchronous event-driven
 network appl
ication framework for rapid development of maintainable high perfo
rmance protocol servers and clients.
Automatic-Module-Name: io.netty.common
Implementation-Version: 4.1.122.Final
Specification-Vendor: The Netty Project
Bundle-ManifestVersion: 2
Bundle-Vendor: The Netty Project
Tool: Bnd-6.3.1.202206071316
Implementation-Vendor: The Netty Project
Bundle-Version: 4.1.122.Final

Created-By: Apache Maven Bundle Plugin 5.1.8
Build-Jdk: 1.8.0_442
Specification-Version: 4.1
Implementation-URL: https://netty.io/netty-common/

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1.68 tomcat 10.1.42

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- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd

- web-app_3_1.xsd
- web-common_3_1.xsd
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- javaee_web_services_client_1_2.xsd
- javaee_6.xsd

- javaee_web_services_1_3.xsd
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- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
- javaee_web_services_1_4.xsd
- javaee_web_services_client_1_4.xsd
- jsp_2_3.xsd
- web-app_3_1.xsd
- web-common_3_1.xsd
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1.69 postgresql-jdbc 42.7.7

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1.70 byte-buddy 1.17.6

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1.71 jackson-datatype-jsr310 2.19.1

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1.72 spring-boot 3.5.3

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1.73 spring-beans 6.2.8

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/**
  * 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}
  */
```

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/**
  * Process the given {@link RegisteredBean} instance ahead-of-time and
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  * <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}
  */
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* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/BeanFactoryAware.java
*
 /spring-beans-6-2-8-sources-jar/org/springframework/beans/propertyeditors/InputSourceEditor.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/ConversionNotSupportedException.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/parsing/BeanDefinitionParsingException.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/BeanCreationNotAllowedException.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/parsing/AbstractComponentDefinition.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/parsing/ConstructorArgumentEntry.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/HierarchicalBeanFactory.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/parsing/NullSourceExtractor.java
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jar/org/springframework/beans/factory/support/BeanDefinitionValidationException.java
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jar/org/springframework/beans/factory/wiring/ClassNameBeanWiringInfoResolver.java
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 /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/BeanExpressionException.java
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jar/org/springframework/beans/factory/support/GenericTypeAwareAutowireCandidateResolver.java
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* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/BeanFactoryInitializer.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/support/ConstructorResolver.java
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* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/config/DeprecatedBeanWarner.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/MutablePropertyValues.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/PropertyDescriptorUtils.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/FactoryBean.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/support/RegisteredBean.java
*
/spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/config/SetFactoryBean.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/support/DisposableBeanAdapter.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/config/BeanDefinition.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/config/PropertyPlaceholderConfigurer.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/groovy/GroovyBeanDefinitionReader.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/support/MethodOverride.java
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* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/NoUniqueBeanDefinitionException.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/aot/AotException.java
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jar/org/springframework/beans/factory/annotation/InitDestroyAnnotationBeanPostProcessor.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/support/RootBeanDefinition.java
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jar/org/springframework/beans/factory/aot/DefaultBeanRegistrationCodeFragments.java
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jar/org/springframework/beans/factory/aot/BeanDefinitionPropertiesCodeGenerator.java
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* /spring-beans-6-2-8-sources-jar/org/springframework/beans/propertyeditors/CharsetEditor.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/TypeMismatchException.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/config/ConfigurableListableBeanFactory.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/AbstractPropertyAccessor.java
*
 /spring-beans-6-2-8-sources-jar/org/springframework/beans/ExtendedBeanInfoFactory.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/config/PropertyResourceConfigurer.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/support/ManagedSet.java
* /spring-beans-6-2-8-sources-
jar/org/springframework/beans/factory/serviceloader/AbstractServiceLoaderBasedFactoryBean.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/PropertyAccessor.java
* /spring-beans-6-2-8-sources-
jar/org/springframework/beans/factory/aot/BeanDefinitionMethodGeneratorFactory.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/propertyeditors/CurrencyEditor.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/ListableBeanFactoryExtensions.kt
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/xml/ResourceEntityResolver.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/support/ManagedList.java
*
 /spring-beans-6-2-8-sources-jar/org/springframework/beans/propertyeditors/TimeZoneEditor.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/SimpleBeanInfoFactory.java
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* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/xml/SimpleConstructorNamespaceHandler.java
*
/spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/xml/SimplePropertyNamespaceHandler.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/annotation/ParameterResolutionDelegate.java
* /spring-beans-6-2-8-sources-jar/org/springframework/beans/factory/annotation/CustomAutowireConfigurer.java

1.74 spring-web 6.2.8

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* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/ResourceHttpMessageWriter.java
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* /spring-web-6-2-8-sources-jar/org/springframework/http/HttpStatusCode.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/multipart/DefaultParts.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/support/InterceptingHttpAccessor.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/filter/ServletRequestPathFilter.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/converter/AbstractSmartHttpMessageConverter.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/reactive/ReactorNetty2ClientHttpConnector.java
* /spring-web-6-2-8-sources-
jar/org/springframework/http/converter/feed/AbstractWireFeedHttpMessageConverter.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/context/request/RequestContextHolder.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/client/RestClientUtils.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/util/pattern/SingleCharWildcardedPathElement.java
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* /spring-web-6-2-8-sources-
jar/org/springframework/web/service/invoker/AbstractReactorHttpExchangeAdapter.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/JettyClientHttpResponse.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/MissingServletRequestParameterException.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/server/ServerWebExchangeExtensions.kt
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/json/Jackson2JsonEncoder.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/reactive/ReactorClientHttpResponse.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/annotation/ControllerAdvice.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/service/invoker/RequestPartArgumentResolver.java
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 /spring-web-6-2-8-sources-jar/org/springframework/web/util/UriBuilder.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/filter/ShallowEtagHeaderFilter.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/server/reactive/ReactorServerHttpRequest.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/xml/XmlEventDecoder.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/client/StatusHandler.java

* /spring-web-6-2-8-sources-jar/org/springframework/http/server/PathContainer.java
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* /spring-web-6-2-8-sources-jar/org/springframework/http/converter/xml/MarshallingHttpMessageConverter.java
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* /spring-web-6-2-8-sources-jar/org/springframework/http/client/HttpComponentsClientHttpResponse.java
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/spring-web-6-2-8-sources-jar/org/springframework/http/HttpCookie.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/BufferingClientHttpResponseWrapper.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/service/invoker/HttpClientAdapter.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/util/OpaqueUriComponents.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/reactive/ReactorResourceFactory.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/KotlinSerializationSupport.java
* /spring-web-6-2-8-sources-
jar/org/springframework/http/converter/json/MappingJackson2HttpMessageConverter.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/MultipartBodyBuilder.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/support/ConfigurableWebBindingInitializer.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/xml/Jaxb2Helper.java
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/spring-web-6-2-8-sources-jar/org/springframework/http/StreamingHttpOutputMessage.java
* /spring-web-6-2-8-sources-
jar/org/springframework/web/context/request/async/DeferredResultProcessingInterceptor.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/protobuf/ProtobufDecoder.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/multipart/MultipartParser.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/json/Jackson2Tokenizer.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/support/WebRequestDataBinder.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/util/BindErrorUtils.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/converter/json/ProblemDetailJacksonMixin.java
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* /spring-web-6-2-8-sources-
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* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/json/Jackson2JsonDecoder.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/client/HttpMessageConverterExtractor.java
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* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/multipart/MultipartHttpMessageReader.java
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/spring-web-6-2-8-sources-jar/org/springframework/web/multipart/MultipartFileResource.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/converter/protobuf/ProtobufHttpMessageConverter.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/accept/AbstractMappingContentNegotiationStrategy.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/server/handler/ExceptionHandlingWebHandler.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/BufferingClientHttpRequestWrapper.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/AbstractBufferingClientHttpRequest.java
* /spring-web-6-2-8-sources-
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* /spring-web-6-2-8-sources-jar/org/springframework/web/client/ClientHttpResponseDecorator.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/util/NestedServletException.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/json/AbstractJackson2Encoder.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/util/pattern/PathPatternParser.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/converter/json/GsonBuilderUtils.java
* /spring-web-6-2-8-sources-
jar/org/springframework/web/method/support/HandlerMethodArgumentResolverComposite.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/method/annotation/ModelAttributeMethodProcessor.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/reactive/JettyResourceFactory.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/multipart/PartGenerator.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/xml/Jaxb2XmlDecoder.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/EscapedErrors.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/server/session/CookieWebSessionIdResolver.java
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/spring-web-6-2-8-sources-jar/org/springframework/web/server/ServerWebExchangeDecorator.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/server/session/HeaderWebSessionIdResolver.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/service/invoker/HttpServiceProxyFactoryExtensions.kt
* /spring-web-6-2-8-sources-
jar/org/springframework/web/method/annotation/MethodArgumentConversionNotSupportedException.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/HttpStatus.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/HttpRequest.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/HttpMethod.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/server/i18n/AcceptHeaderLocaleContextResolver.java
* /spring-web-6-2-8-sources-
jar/org/springframework/web/context/support/AnnotationConfigWebApplicationContext.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/HttpMediaTypeNotSupportedException.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/converter/ByteArrayHttpMessageConverter.java
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/spring-web-6-2-8-sources-jar/org/springframework/http/converter/ObjectToStringHttpMessageConverter.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/SimpleClientHttpRequest.java

* /spring-web-6-2-8-sources-jar/org/springframework/web/util/ForwardedHeaderUtils.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/annotation/BindParam.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/multipart/DefaultPartEvents.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/service/invoker/HttpExchangeAdapter.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/annotation/RequestMethod.java
* /spring-web-6-2-8-sources-
jar/org/springframework/http/server/reactive/observation/ServerRequestObservationContext.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/util/UriUtils.java
* /spring-web-6-2-8-sources-
jar/org/springframework/web/context/support/ServletContextAttributeFactoryBean.java
*
/spring-web-6-2-8-sources-jar/org/springframework/http/converter/json/GsonHttpMessageConverter.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/json/Jackson2CodecSupport.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/converter/json/JsonbHttpMessageConverter.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/server/reactive/TomcatHttpHandlerAdapter.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/accept/MediaTypeFileExtensionResolver.java
*
 /spring-web-6-2-8-sources-jar/org/springframework/http/codec/support/DefaultServerCodecConfigurer.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/client/HttpClientErrorException.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/client/HttpStatusCodeException.java
* /spring-web-6-2-8-sources-
jar/org/springframework/web/method/annotation/AbstractWebArgumentResolverAdapter.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/cors/reactive/CorsWebFilter.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/server/handler/WebHandlerDecorator.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/context/support/ServletContextScope.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/accept/FixedContentNegotiationStrategy.java
* /spring-web-6-2-8-sources-
jar/org/springframework/web/method/support/AsyncHandlerMethodReturnValueHandler.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/support/BasicAuthenticationInterceptor.java
*
 /spring-web-6-2-8-sources-jar/org/springframework/http/codec/cbor/Jackson2CborEncoder.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/ClientHttpRequestInitializer.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/server/ServerHttpRequest.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/client/UnknownHttpStatusCodeException.java
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* /spring-web-6-2-8-sources-
jar/org/springframework/web/method/annotation/RequestHeaderMapMethodArgumentResolver.java
*
/spring-web-6-2-8-sources-jar/org/springframework/web/context/annotation/RequestScope.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/server/session/WebSessionManager.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/ReactiveHttpInputMessage.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/context/request/RequestScope.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/converter/json/SpringHandlerInstantiator.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/context/request/WebRequestInterceptor.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/ClientHttpRequestFactory.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/context/annotation/SessionScope.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/ReactiveHttpOutputMessage.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/context/WebApplicationContext.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/cors/CorsConfigurationSource.java
*
/spring-web-6-2-8-sources-jar/org/springframework/web/cors/reactive/CorsConfigurationSource.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/annotation/RequestAttribute.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/server/WebHandler.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/context/request/SessionScope.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/client/ClientHttpRequestExecution.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/server/WebExceptionHandler.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/filter/CompositeFilter.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/multipart/MultipartRequest.java
* /spring-web-6-2-8-sources-
jar/org/springframework/web/context/request/async/TimeoutDeferredResultProcessingInterceptor.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/context/request/FacesWebRequest.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/context/support/SpringBeanAutowiringSupport.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/server/reactive/ServerHttpRequest.java
*
 /spring-web-6-2-8-sources-jar/org/springframework/web/cors/reactive/PreFlightRequestHandler.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/filter/FormContentFilter.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/util/HtmlCharacterEntityDecoder.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/multipart/FileStorage.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/multipart/MultipartHttpServletRequest.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/SpringServletContainerInitializer.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/multipart/MultipartResolver.java
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* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/multipart/FilePart.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/client/NoOpResponseErrorHandler.java
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Although created for httpd, this file is used by many software systems
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#
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
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#
MIME type (lowercased)   Extensions
== ==========

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/spring-web-6-2-8-sources-jar/org/springframework/http/client/SimpleClientHttpRequestFactory.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/annotation/RequestMapping.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/context/request/async/WebAsyncUtils.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/HttpRequestMethodNotSupportedException.java
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* /spring-web-6-2-8-sources-
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* /spring-web-6-2-8-sources-
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* /spring-web-6-2-8-sources-jar/org/springframework/http/client/reactive/AbstractClientHttpRequest.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/protobuf/ProtobufHttpMessageWriter.java
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* /spring-web-6-2-8-sources-jar/org/springframework/http/ReadOnlyHttpHeaders.java
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* /spring-web-6-2-8-sources-jar/org/springframework/web/service/invoker/RequestParamArgumentResolver.java
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* /spring-web-6-2-8-sources-jar/org/springframework/http/server/reactive/ReactorHttpHandlerAdapter.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/accept/ContentNegotiationStrategy.java
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 /spring-web-6-2-8-sources-jar/org/springframework/http/HttpOutputMessage.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/cors/CorsProcessor.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/server/reactive/SslInfo.java
* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/HttpMessageEncoder.java
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* /spring-web-6-2-8-sources-jar/org/springframework/http/converter/json/MappingJacksonValue.java

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* /spring-web-6-2-8-sources-jar/org/springframework/http/MediaTypeEditor.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/annotation/ValueConstants.java
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 /spring-web-6-2-8-sources-jar/org/springframework/web/util/IntrospectorCleanupListener.java
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* /spring-web-6-2-8-sources-jar/org/springframework/http/codec/cbor/KotlinSerializationCborDecoder.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/bind/annotation/InitBinder.java
* /spring-web-6-2-8-sources-jar/org/springframework/web/service/invoker/PathVariableArgumentResolver.java
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* /spring-aop-6-2-8-sources-jar/org/springframework/aop/framework/ObjenesisCglibAopProxy.java
* /spring-aop-6-2-8-sources-
jar/org/springframework/aop/framework/autoproxy/target/LazyInitTargetSourceCreator.java
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* /spring-aop-6-2-8-sources-jar/org/springframework/aop/scope/ScopedProxyUtils.java
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jar/org/springframework/aop/framework/autoproxy/AbstractBeanFactoryAwareAdvisingPostProcessor.java
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jar/org/springframework/aop/framework/autoproxy/target/AbstractBeanFactoryBasedTargetSourceCreator.java
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* /spring-aop-6-2-8-sources-jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java
* /spring-aop-6-2-8-sources-jar/org/springframework/aop/target/EmptyTargetSource.java
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* /spring-core-6-2-8-sources-jar/org/springframework/asm/Handle.java
* /spring-core-6-2-8-sources-jar/org/springframework/asm/ModuleVisitor.java
* /spring-core-6-2-8-sources-jar/org/springframework/asm/SymbolTable.java
* /spring-core-6-2-8-sources-jar/org/springframework/asm/Opcodes.java
* /spring-core-6-2-8-sources-jar/org/springframework/asm/CurrentFrame.java
* /spring-core-6-2-8-sources-jar/org/springframework/asm/RecordComponentVisitor.java
* /spring-core-6-2-8-sources-jar/org/springframework/asm/Context.java
* /spring-core-6-2-8-sources-jar/org/springframework/asm/Edge.java
* /spring-core-6-2-8-sources-jar/org/springframework/asm/ClassWriter.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/asm/FieldWriter.java

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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/BridgeMethodResolver.java
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Found in path(s):
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/FieldSpec.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/CodeWriter.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/JavaFile.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/Util.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/ParameterizedTypeName.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/javapoet/TypeName.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/ArrayTypeName.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/TypeSpec.java

* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/NameAllocator.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/TypeVariableName.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/ParameterSpec.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/AnnotationSpec.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/CodeBlock.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/MethodSpec.java
* /spring-core-6-2-8-sources-jar/org/springframework/javapoet/WildcardTypeName.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StreamConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/CollectionToArrayConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/style/ToStringStyler.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/converter/GenericConverter.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/VfsPatternUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ObjectToArrayConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/WritableResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ConvertingPropertyEditorAdapter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/EnvironmentCapable.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/MissingRequiredPropertiesException.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/EncodingException.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/CodecException.java
* /spring-core-6-2-8-sources-
jar/org/springframework/core/convert/support/AbstractConditionalEnumConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/DecodingException.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/style/DefaultToStringStyler.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/FileSystemResourceLoader.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/Order.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/InvalidMimeTypeException.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/ResolvableTypeProvider.java

* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/IdToEntityConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/AbstractXMLReader.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/CollectionToObjectConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/ResourceEditor.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/ConverterNotFoundException.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/filter/AspectJTypeFilter.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/util/xml/StaxResult.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/DefaultPropertySourceFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/AbstractStaxHandler.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/ClassMetadata.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/UndeclaredThrowableException.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/MethodInterceptor.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/Factory.java
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Found in path(s):
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/GeneratedMethods.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/MergedAnnotationPredicates.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/annotation/ReflectiveProcessor.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/PropertiesLoaderUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/ResourcePatternResolver.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/ResourcePatternUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/substitution/Target_ClassFinder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/NestedExceptionUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AnnotationConfigurationException.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/Netty5BufferEncoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/GenerationContext.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ExecutableMode.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/DataBufferOutputStream.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/log/CompositeLog.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/CloseableDataBuffer.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StringToCurrencyConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/ClassNameGenerator.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/FileNativeConfigurationWriter.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/MethodReference.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/predicate/ProxyHintsPredicates.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/converter/Converter.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/NativeConfigurationWriter.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/DomUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/task/TaskTimeoutException.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/concurrent/ListenableFuture.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/style/SimpleValueStyler.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/AbstractEncoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/DefaultPropertiesPersister.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StringToLocaleConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/RuntimeHints.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StringToTimeZoneConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/TouchableDataBuffer.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/PooledDataBuffer.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/predicate/ResourceHintsPredicates.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ConditionalHint.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/StandardReflectionParameterNameDiscoverer.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/io/VfsUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/classreading/CachingMetadataReaderFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ProxyHints.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/NettyByteBufDecoder.java

* /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/ResourceRegion.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/XmlValidationModeDetector.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/DefaultDataBufferFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/PropertiesPersister.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/FieldHint.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/DomContentHandler.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/MemberHint.java
*
/spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/feature/ThrowawayClassLoader.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/concurrent/MonoToListenableFutureAdapter.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/substitution/Target_Introspector.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/annotation/SimpleReflectiveProcessor.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/SerializationHints.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/GeneratedMethod.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/GeneratedTypeReference.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/MergedAnnotation.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/Hints.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/converter/ConvertingComparator.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StringToCharsetConverter.java
*
/spring-core-6-2-8-sources-jar/org/springframework/core/codec/Netty5BufferDecoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ConversionServiceFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AliasFor.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/predicate/SerializationHintsPredicates.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/NettyByteBufEncoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/DataBufferDecoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/DataBufferFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/concurrent/FutureUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/predicate/RuntimeHintsPredicates.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/StaxUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/AbstractSingleValueEncoder.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/log/LogMessage.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/Generated.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/support/ClassHintUtils.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/type/StandardClassMetadata.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/classreading/MetadataReaderFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/log/LogFormatUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/Property.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/support/KotlinDetectorRuntimeHints.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/task/VirtualThreadTaskExecutor.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/task/support/ContextPropagatingTaskDecorator.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReader.java
* /spring-core-6-2-8-sources-jar/org/springframework/lang/NonNullFields.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/InstanceFilter.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/TypeHintExtensions.kt
*
 /spring-core-6-2-8-sources-jar/org/springframework/util/xml/TransformerUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/concurrent/FutureAdapter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/Netty5DataBuffer.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/AutoPopulatingList.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/ModuleResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/task/VirtualThreadDelegate.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/ClassPathResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/support/ObjectToObjectConverterRuntimeHints.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/classreading/SimpleAnnotationMetadata.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/ResourceArrayPropertyEditor.java
* /spring-core-6-2-8-sources-
jar/org/springframework/aot/hint/support/PathMatchingResourcePatternResolverRuntimeHints.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/util/xml/SimpleNamespaceContext.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/ConversionFailedException.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/Netty5DataBufferFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/lang/NonNull.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/DefaultParameterNameDiscoverer.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/PathResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/NestedCheckedException.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/Environment.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StringToArrayConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/LimitedDataBufferList.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/AnnotationMetadata.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/type/StandardMethodMetadata.java
* /spring-core-6-2-8-sources-jar/org/springframework/lang/NonNullApi.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ReflectionTypeReference.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/AbstractCharSequenceDecoder.java

* /spring-core-6-2-8-sources-
jar/org/springframework/aot/generate/UnsupportedTypeValueCodeGenerationException.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/BasicJsonWriter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/NestedRuntimeException.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/MimeTypeUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/task/TaskExecutor.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/task/AsyncTaskExecutor.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/ConversionService.java
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/spring-core-6-2-8-sources-jar/org/springframework/core/AttributeAccessorSupport.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/function/ThrowingSupplier.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/PropertySource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/VfsResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/DefaultConversionService.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/ProfilesParser.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/SerializationHintsWriter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/MethodParameter.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/StaxEventXMLReader.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/DefaultGenerationContext.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/MethodName.java
*
/spring-core-6-2-8-sources-jar/org/springframework/core/task/support/ExecutorServiceAdapter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/task/support/CompositeTaskDecorator.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/support/SpringPropertiesRuntimeHints.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/StringValueResolver.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/ParameterizedTypeReference.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ResourcePatternHints.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/AnnotatedTypeMetadata.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/function/SingletonSupplier.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/JOptCommandLinePropertySource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/AbstractResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/serializer/DefaultDeserializer.java
*
/spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/CollectionToStringConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/classreading/SimpleMethodMetadata.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/FileSystemUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/StaxStreamXMLReader.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/backoff/BackOff.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/CharSequenceEncoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/TypeUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/ByteBufferDecoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/DigestUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/CollectionFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/AbstractDataBufferDecoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/NettyDataBufferFactory.java
*
/spring-core-6-2-8-sources-jar/org/springframework/core/OrderComparator.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/AppendableConsumerInputStreamSource.java

* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/StringDecoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ResourceHintsExtensions.kt
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/RepeatableContainers.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/SpringNamingPolicy.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/classreading/ClassFormatException.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AbstractMergedAnnotation.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/classreading/MergedAnnotationReadingVisitor.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/GeneratedClasses.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/Conventions.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AnnotationAwareOrderComparator.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/JdkProxyHintExtensions.kt
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/EncodedResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/PriorityOrdered.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/LinkedCaseInsensitiveMap.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ExecutableHint.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/ByteArrayResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/comparator/NullSafeComparator.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ArrayToCollectionConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/ConcurrentLruCache.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/AbstractStaxXMLReader.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/util/comparator/ComparableComparator.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ProxyHintsExtensions.kt
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/TypeReference.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/serializer/support/SerializingConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/ReflectionHintsWriter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/KotlinReflectionParameterNameDiscoverer.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/style/DefaultValueStyler.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/CharBufferDecoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AnnotationTypeMapping.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/Constants.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/NativeDetector.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/util/comparator/BooleanComparator.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/comparator/Comparators.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/ProxyHintsWriter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/PropertyResolverExtensions.kt
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/SimpleTypeReference.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/serializer/support/DeserializingConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/DescriptiveResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/MethodClassKey.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AnnotationTypeMappings.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ReflectionHintsExtensions.kt
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/SerializationHintsExtensions.kt
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/NettyDataBuffer.java
* /spring-core-6-2-8-sources-

jar/org/springframework/core/type/classreading/SimpleAnnotationMetadataReadingVisitor.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/GeneratedClass.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/FileCopyUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/DataBufferWrapper.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/ResourceHintsWriter.java
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* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/android/Android17Instantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/android/Android18Instantiator.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/basic/ConstructorInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/annotations/Typology.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/basic/NullInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/basic/ProxyingInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/ObjenesisSerializer.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/SerializationInstantiatorHelper.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/sun/UnsafeFactoryInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/strategy/InstantiatorStrategy.java
* /spring-core-6-2-8-sources-
jar/org/springframework/objenesis/instantiator/basic/DelegatingToExoticInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/basic/FailingInstantiator.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/util/ClassUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/basic/AccessibleInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/strategy/StdInstantiatorStrategy.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiatorBase.java
* /spring-core-6-2-8-sources-
jar/org/springframework/objenesis/instantiator/basic/ObjectInputStreamInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/annotations/Instantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJSerializationInstantiator.java

* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/ObjenesisHelper.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/sun/MagicInstantiator.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/ObjectInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/gcj/GCJInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/util/UnsafeUtils.java
* /spring-core-6-2-8-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactorySerializationInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/ObjenesisBase.java
* /spring-core-6-2-8-sources-
jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/perc/PercSerializationInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/strategy/SerializingInstantiatorStrategy.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/perc/PercInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/android/Android10Instantiator.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/objenesis/ObjenesisException.java
* /spring-core-6-2-8-sources-
jar/org/springframework/objenesis/instantiator/basic/ObjectStreamClassInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/ObjenesisStd.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/sun/SunReflectionFactoryHelper.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/strategy/SingleInstantiatorStrategy.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/strategy/BaseInstantiatorStrategy.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/instantiator/basic/NewInstanceInstantiator.java
* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/strategy/PlatformDescription.java
* /spring-core-6-2-8-sources-
jar/org/springframework/objenesis/instantiator/android/AndroidSerializationInstantiator.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/OverridingClassLoader.java

* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/converter/ConverterFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/AbstractXMLEventReader.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/ExceptionDepthComparator.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/PropertySources.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/NamedInheritableThreadLocal.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/style/ToStringCreator.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/XMLEventStreamWriter.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/UpdateMessageDigestInputStream.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/AbstractXMLStreamReader.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/concurrent/DelegatingCompletableFuture.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/classreading/SimpleMetadataReaderFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/LocalizedResourceHelper.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/support/ResourcePropertySource.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/util/xml/StaxEventHandler.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ArrayToStringConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ArrayToObjectConverter.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ObjectToStringConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StringToCollectionConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/StaxStreamHandler.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/PropertiesToStringConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/filter/AbstractClassTestingTypeFilter.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/ExceptionTypeFilter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/converter/ConditionalConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/SpringCglibInfo.java

* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ObjectToCollectionConverter.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/NumberToCharacterConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/serializer/support/SerializationFailedException.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/core/InfrastructureProxy.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/ClassRelativeResourceLoader.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/xml/SimpleTransformErrorListener.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/style/StylerUtils.java

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* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/ResourceEncoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ConversionUtils.java
*
/spring-core-6-2-8-sources-jar/org/springframework/core/codec/ByteBufferEncoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/PackagesAnnotationFilter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/MergedAnnotationSelector.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/AbstractDecoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/MergedAnnotationSelectors.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/ReactiveAdapter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/ByteArrayDecoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/ByteArrayEncoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/IntegerToEnumConverterFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/SimpleRouteMatcher.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/RouteMatcher.java
*
/spring-core-6-2-8-sources-jar/org/springframework/core/Ordered.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/DecoratingProxy.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/SynthesizingMethodParameter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/filter/AnnotationTypeFilter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/IntrospectionFailureLogger.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/ClassLoaderAwareGeneratorStrategy.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/unit/DataUnit.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/ResourceDecoder.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/util/concurrent/ListenableFutureAdapter.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/SingleToMultiValueMapAdapter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StringToRegexConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/TypeMappedAnnotations.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/MutablePropertySources.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/Resource.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/function/SupplierUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/TypeHint.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/env/Profiles.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/ReactiveAdapterRegistry.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/ParameterNameDiscoverer.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/FastByteArrayOutputStream.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/SystemEnvironmentPropertySource.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/AntPathMatcher.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/ConcurrentReferenceHashMap.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/FileSystemGeneratedFiles.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/CompositeCollection.java
* /spring-core-6-2-8-sources-jar/org/springframework/lang/CheckReturnValue.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/DefaultMethodReference.java

* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/DataBufferUtils.java
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 /spring-core-6-2-8-sources-jar/org/springframework/core/CoroutinesUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/concurrent/ListenableFutureTask.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/MapToMapConverter.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/CompositeSet.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/PlaceholderResolutionException.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/FilteredSet.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/ResourceBundleHint.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/PropertySourcesPropertyResolver.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/unit/DataSize.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/function/ThrowingFunction.java
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* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/predicate/ReflectionHintsPredicates.java
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* /spring-core-6-2-8-sources-jar/org/springframework/util/MimeType.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AnnotationAttributes.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/InputStreamResource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/DataBuffer.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/InputStreamSource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/ArrayToArrayConverter.java
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 /spring-core-6-2-8-sources-jar/org/springframework/util/UnmodifiableMultiValueMap.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/buffer/JettyDataBuffer.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/MultiValueMap.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/type/filter/AbstractTypeHierarchyTraversingFilter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/SimpleAliasRegistry.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/InMemoryGeneratedFiles.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/task/AsyncListenableTaskExecutor.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/nativex/feature/PreComputeFieldFeature.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/ReactiveTypeDescriptor.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/StopWatch.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/AotDetector.java
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 /spring-core-6-2-8-sources-jar/org/springframework/util/FilteredMap.java
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* /spring-core-6-2-8-sources-jar/org/springframework/util/concurrent/CompletableToListenableFutureAdapter.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/codec/Decoder.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/PropertiesPropertySource.java
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* /spring-core-6-2-8-sources-jar/org/springframework/util/function/ThrowingConsumer.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/JavaSerializationHint.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AttributeMethods.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/MethodInvoker.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/KotlinDetector.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/BridgeMethodResolver.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/SerializableTypeWrapper.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/concurrent/FailureCallback.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/task/support/TaskExecutorAdapter.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/annotation/ReflectiveRuntimeHintsRegistrar.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/GeneratedFiles.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/OrderUtils.java
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* /spring-core-6-2-8-sources-jar/org/springframework/aot/generate/ValueCodeGenerator.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/JdkProxyHint.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/InvocationHandlerGenerator.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/NoOpGenerator.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/Proxy.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/beans/BeanMapEmitter.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/CallbackGenerator.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/ClassTransformerChain.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/ClassFilterTransformer.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/ReflectUtils.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/DefaultNamingPolicy.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/reflect/FastClassEmitter.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/AbstractClassLoader.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/beans/BulkBeanEmitter.java

* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/CollectionUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/VisibilityPredicate.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/KeyFactory.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/reflect/MethodDelegate.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/MethodProxy.java
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/spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/impl/AddStaticInitTransformer.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/beans/BeanCopier.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/FixedValueGenerator.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/MixinEmitter.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/MethodWrapper.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/CallbackFilter.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/DebuggingClassWriter.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/EmitUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/DispatcherGenerator.java
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* /spring-core-6-2-8-sources-jar/org/springframework/util/JdkIdGenerator.java
*
 /spring-core-6-2-8-sources-jar/org/springframework/util/ResizableByteArrayOutputStream.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/serializer/DefaultSerializer.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/AlternativeJdkIdGenerator.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AnnotationUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/ClassUtils.java
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* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/RuntimeHintsRegistrar.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/ObjectUtils.java
* /spring-core-6-2-8-sources-jar/org/springframework/aot/hint/BindingReflectionHintsRegistrar.java
* /spring-core-6-2-8-sources-jar/org/springframework/lang/Contract.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/ConfigurableEnvironment.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/io/UrlResource.java
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* /spring-core-6-2-8-sources-jar/org/springframework/objenesis/SpringObjenesis.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/Local.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/FixedValue.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/ClassReaderGenerator.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/NamingPolicy.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/TransformingClassGenerator.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/impl/AddPropertyTransformer.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/ClassVisitorTee.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/util/ParallelSorterEmitter.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/LazyLoader.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldEnabled.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/Transformer.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/ClassEmitter.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/beans/BeanGenerator.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/reflect/FastMember.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/impl/FieldProviderTransformer.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/ProxyRefDispatcher.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/ProcessSwitchCallback.java

* /spring-core-6-2-8-sources-jar/org/springframework/cglib/util/ParallelSorter.java
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 /spring-core-6-2-8-sources-jar/org/springframework/cglib/util/StringSwitcher.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/DefaultGeneratorStrategy.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/Dispatcher.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/reflect/ConstructorDelegate.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/beans/FixedKeySet.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/MethodFilterTransformer.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/DuplicatesPredicate.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/AbstractClassTransformer.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/TinyBitSet.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/impl/InterceptFieldTransformer.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/ClassTransformerTee.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/core/Predicate.java
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* /spring-core-6-2-8-sources-jar/org/springframework/cglib/transform/AnnotationVisitorTee.java
* /spring-core-6-2-8-sources-jar/org/springframework/cglib/proxy/MixinBeanEmitter.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/type/StandardAnnotationMetadata.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/annotation/AnnotationFilter.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/type/MethodMetadata.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StringToEnumConverterFactory.java
*
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* /spring-core-6-2-8-sources-jar/org/springframework/core/task/TaskDecorator.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/env/EnumerablePropertySource.java
* /spring-core-6-2-8-sources-jar/org/springframework/util/CommonsLogWriter.java
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* /spring-core-6-2-8-sources-
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* /spring-core-6-2-8-sources-jar/org/springframework/core/serializer/Serializer.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/io/FileUrlResource.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/log/LogAccessor.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/PrioritizedParameterNameDiscoverer.java
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 /spring-core-6-2-8-sources-jar/org/springframework/core/metrics/jfr/FlightRecorderStartupEvent.java
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* /spring-core-6-2-8-sources-jar/org/springframework/core/env/MapPropertySource.java
* /spring-core-6-2-8-sources-jar/org/springframework/core/convert/support/StringToCharacterConverter.java
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* limitations under the License.
*/
/**
* Indicates that a component is only eligible for registration when all
* {@linkplain #value specified conditions} match.
*
* <p>A condition 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:
*
* as a type-level annotation on any class directly or indirectly annotated with
* {@code @Component}, including {@link Configuration @Configuration} classes
* as a meta-annotation, for the purpose of composing custom stereotype
* annotations
* as a method-level annotation on any {@link Bean @Bean} method
*

```
*
* <p>If a {@code @Configuration} class is marked with {@code @Conditional},
* all of the {@code @Bean} methods, {@link Import @Import} annotations, and
* {@link ComponentScan @ComponentScan} annotations associated with that
* class will be subject to the conditions.
*
* <p><strong>NOTE</strong>: Inheritance of {@code @Conditional} annotations
* is not supported; any conditions from superclasses or from overridden
* methods will not be considered. In order to enforce these semantics,
* {@code @Conditional} itself is not declared as
* {@link java.lang.annotation.Inherited
 @Inherited}; furthermore, any
* custom <em>composed annotation</em> that is meta-annotated with
* {@code @Conditional} must not be declared as {@code @Inherited}.
*
* @author Phillip Webb
* @author Sam Brannen
* @since 4.0
* @see Condition
*/
```

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* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/FilterType.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/support/MessageSourceResourceBundle.java
*

/spring-context-6-2-8-sources-jar/org/springframework/scheduling/concurrent/CustomizableThreadFactory.java
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* /spring-context-6-2-8-sources-jar/org/springframework/context/MessageSource.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/AnnotationConfigRegistry.java
*
/spring-context-6-2-8-sources-jar/org/springframework/context/support/StaticApplicationContext.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/support/MBeanServerFactoryBean.java
* /spring-context-6-2-8-sources-

jar/org/springframework/context/annotation/AnnotationConfigApplicationContextExtensions.kt
* /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/CacheProxyFactoryBean.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/annotation/CacheAnnotationParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/Import.java
* /spring-context-6-2-8-sources-jar/org/springframework/jndi/JndiTemplateEditor.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/support/StaticMessageSource.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/CacheManager.java
* /spring-context-6-2-8-sources-
jar/org/springframework/instrument/classloading/InstrumentationLoadTimeWeaver.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ImportBeanDefinitionRegistrar.java
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* /spring-context-6-2-8-sources-
jar/org/springframework/scheduling/support/DelegatingErrorHandlingRunnable.java
*
 /spring-context-6-2-8-sources-jar/org/springframework/jmx/access/MBeanConnectFailureException.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/naming/SelfNaming.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/MBeanServerNotFoundException.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/MBeanExporterListener.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/weaving/LoadTimeWeaverAware.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/access/InvalidInvocationException.java
* /spring-context-6-2-8-sources-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/SchedulingException.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/NoSuchMessageException.java
*
 /spring-context-6-2-8-sources-jar/org/springframework/validation/MessageCodesResolver.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/BindingErrorProcessor.java

* /spring-context-6-2-8-sources-jar/org/springframework/context/Phased.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/number/AbstractNumberFormatter.java
* /spring-context-6-2-8-sources-
jar/org/springframework/validation/beanvalidation/LocaleContextMessageInterpolator.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/Formatter.java
* /spring-context-6-2-8-sources-jar/org/springframework/jndi/JndiLookupFailureException.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ScopeMetadata.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/assembler/MBeanInfoAssembler.java
*
/spring-context-6-2-8-sources-jar/org/springframework/jmx/access/InvocationFailureException.java
* /spring-context-6-2-8-sources-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java
* /spring-context-6-2-8-sources-jar/org/springframework/scripting/ScriptSource.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/access/MBeanInfoRetrievalException.java
* /spring-context-6-2-8-sources-jar/org/springframework/ejb/config/JndiLookupBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/MBeanExportException.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/ApplicationContextException.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/JmxException.java
* /spring-context-6-2-8-sources-
jar/org/springframework/context/annotation/AnnotationConfigBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/config/ContextNamespaceHandler.java
*
/spring-context-6-2-8-sources-jar/org/springframework/context/ApplicationContextAware.java
* /spring-context-6-2-8-sources-
jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java
* /spring-context-6-2-8-sources-jar/org/springframework/ejb/config/JeeNamespaceHandler.java
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* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/annotation/Schedules.java
*
 /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ScopeMetadataResolver.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/datetime/standard/TemporalAccessorPrinter.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/Parser.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/Printer.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/support/FormatterPropertyEditorAdapter.java
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jar/org/springframework/context/config/AbstractPropertyLoadingBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/config/PropertyOverrideBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/support/CompositeCacheManager.java
* /spring-context-6-2-8-sources-jar/org/springframework/jndi/JndiLocatorDelegate.java
* /spring-context-6-2-8-sources-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java
*
 /spring-context-6-2-8-sources-jar/org/springframework/format/datetime/standard/YearMonthFormatter.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/KeyGenerator.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/datetime/standard/MonthDayFormatter.java
* /spring-context-6-2-8-sources-jar/org/springframework/jndi/JndiPropertySource.java
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* /spring-context-6-2-8-sources-
jar/org/springframework/context/annotation/ConflictingBeanDefinitionException.java
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* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/support/MethodInvokingRunnable.java
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 /spring-context-6-2-8-sources-jar/org/springframework/cache/config/CacheNamespaceHandler.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java
* /spring-context-6-2-8-sources-
jar/org/springframework/format/datetime/standard/DateTimeFormatterFactoryBean.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/number/CurrencyStyleFormatter.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/CacheErrorHandler.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/SimpleCacheErrorHandler.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/assembler/AbstractMBeanInfoAssembler.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/support/ClassPathXmlApplicationContext.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/AspectJAutoProxyRegistrar.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/access/ConnectorDelegate.java
*
 /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/NotificationListenerBean.java
* /spring-context-6-2-8-sources-jar/org/springframework/jndi/TypeMismatchNamingException.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/beanvalidation/CustomValidatorBean.java

* /spring-context-6-2-8-sources-jar/org/springframework/instrument/classloading/SimpleLoadTimeWeaver.java
* /spring-context-6-2-8-sources-jar/org/springframework/scripting/bsh/BshScriptEvaluator.java
* /spring-context-6-2-8-sources-jar/org/springframework/scripting/support/StaticScriptSource.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/EnvironmentAware.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/config/TriggerTask.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/metadata/ManagedResource.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/metadata/ManagedMetric.java
* /spring-context-6-2-8-sources-
jar/org/springframework/instrument/classloading/SimpleInstrumentableClassLoader.java
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/spring-context-6-2-8-sources-jar/org/springframework/context/config/LoadTimeWeaverBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/metadata/JmxMetadataUtils.java
* /spring-context-6-2-8-sources-
jar/org/springframework/format/number/NumberFormatAnnotationFormatterFactory.java
* /spring-context-6-2-8-sources-
jar/org/springframework/instrument/classloading/tomcat/TomcatLoadTimeWeaver.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/DefaultMessageCodesResolver.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/config/ScheduledTaskHolder.java
* /spring-context-6-2-8-sources-
jar/org/springframework/instrument/classloading/SimpleThrowawayClassLoader.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/naming/ObjectNamingStrategy.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/support/EmbeddedValueResolutionSupport.java
*
/spring-context-6-2-8-sources-jar/org/springframework/context/MessageSourceResolvable.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java
* /spring-context-6-2-8-sources-jar/org/springframework/stereotype/Indexed.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/support/ConversionServiceFactoryBean.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/concurrent/ScheduledExecutorTask.java
* /spring-context-6-2-8-sources-jar/org/springframework/jndi/JndiAccessor.java
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* /spring-context-6-2-8-sources-jar/org/springframework/scripting/ScriptEvaluator.java
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 /spring-context-6-2-8-sources-jar/org/springframework/context/event/EventListenerFactory.java
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jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/scripting/config/LangNamespaceHandler.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/Role.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ComponentScans.java
* /spring-context-6-2-8-sources-jar/org/springframework/scripting/support/StandardScriptEvalException.java
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* /spring-context-6-2-8-sources-jar/org/springframework/context/aot/AbstractAotProcessor.java
*
 /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/CacheAspectSupport.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/AbstractCacheInvoker.java
* /spring-context-6-2-8-sources-
jar/org/springframework/context/annotation/ClassPathScanningCandidateComponentProvider.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ConfigurationClassParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/config/ExecutorBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/DataBinder.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/aot/ContextAotProcessor.java

* /spring-context-6-2-8-sources-jar/org/springframework/context/aot/ApplicationContextInitializationCodeGenerator.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/aot/ApplicationContextAotGenerator.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/annotation/EnableAsync.java
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 /spring-context-6-2-8-sources-jar/org/springframework/context/expression/StandardBeanExpressionResolver.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/support/QuartzCronField.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/annotation/ScheduledAnnotationReactiveSupport.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ConfigurationClassEnhancer.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/support/PropertySourcesPlaceholderConfigurer.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/config/SchedulerBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/ValidationUtils.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/method/MethodValidationResult.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ConfigurationClass.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/support/DefaultLifecycleProcessor.java
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 /spring-context-6-2-8-sources-jar/org/springframework/context/ApplicationStartupAware.java
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* /spring-context-6-2-8-sources-jar/org/springframework/cache/support/AbstractValueAdaptingCache.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/MapBindingResult.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ConfigurationCondition.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/AutoProxyRegistrar.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ImportSelector.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/metadata/AbstractJmxAttribute.java
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/spring-context-6-2-8-sources-jar/org/springframework/validation/MessageCodeFormatter.java
* /spring-context-6-2-8-sources-jar/org/springframework/instrument/classloading/ShadowingClassLoader.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/support/RegistrationPolicy.java
* /spring-context-6-2-8-sources-
jar/org/springframework/context/annotation/FullyQualifiedAnnotationBeanNameGenerator.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ScannedGenericBeanDefinition.java
* /spring-context-6-2-8-sources-
jar/org/springframework/jmx/export/assembler/InterfaceBasedMBeanInfoAssembler.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ConditionContext.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/DeferredImportSelector.java
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* /spring-context-6-2-8-sources-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java
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/spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/CacheEvictOperation.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ConfigurationMethod.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/support/ConnectorServerFactoryBean.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/CachePutOperation.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ComponentScanAnnotationParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/CacheManagerExtensions.kt

* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/AnnotationScopeMetadataResolver.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/MBeanExportConfiguration.java
* /spring-context-6-2-8-sources-jar/org/springframework/instrument/classloading/ResourceOverridingShadowingClassLoader.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/support/BindingAwareConcurrentModel.java
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 /spring-context-6-2-8-sources-jar/org/springframework/cache/config/AnnotationDrivenCacheBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/FormatterRegistrar.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/annotation/AsyncConfigurer.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/number/NumberStyleFormatter.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/datetime/standard/DateTimeContextHolder.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/ResourceLoaderAware.java
* /spring-context-6-2-8-sources-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/event/SmartApplicationListener.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/config/CronTask.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/concurrent/DefaultManagedAwareThreadFactory.java
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 /spring-context-6-2-8-sources-jar/org/springframework/scripting/support/ResourceScriptSource.java
* /spring-context-6-2-8-sources-jar/org/springframework/jndi/support/SimpleJndiBeanFactory.java
* /spring-context-6-2-8-sources-jar/org/springframework/jndi/JndiCallback.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/config/MBeanServerBeanDefinitionParser.java
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* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/Jsr330ScopeMetadataResolver.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/annotation/ProxyCachingConfiguration.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/support/ResourceBundleMessageSource.java
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 /spring-context-6-2-8-sources-jar/org/springframework/context/ApplicationEvent.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/EnableAspectJAutoProxy.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/CacheExtensions.kt
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* /spring-context-6-2-8-sources-jar/org/springframework/context/expression/CachedExpressionEvaluator.java
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* /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/CacheOperationSourcePointcut.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/method/DefaultMethodValidationResult.java
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* /spring-context-6-2-8-sources-jar/org/springframework/format/support/DefaultFormattingConversionService.java
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* /spring-context-6-2-8-sources-jar/org/springframework/validation/beanvalidation/MethodValidationAdapter.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ScopedProxyMode.java
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* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/config/ScheduledTask.java
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* /spring-context-6-2-8-sources-jar/org/springframework/format/datetime/DateFormatterRegistrar.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/i18n/LocaleContextThreadLocalAccessor.java
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* /spring-context-6-2-8-sources-jar/org/springframework/instrument/classloading/jboss/JBossLoadTimeWeaver.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/ConditionEvaluator.java
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* /spring-context-6-2-8-sources-jar/org/springframework/context/annotation/CommonAnnotationBeanPostProcessor.java
* /spring-context-6-2-8-sources-jar/org/springframework/validation/beanvalidation/MethodValidationPostProcessor.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/expression/AnnotatedElementKey.java
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* /spring-context-6-2-8-sources-jar/org/springframework/context/support/ApplicationContextAwareProcessor.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/event/SimpleApplicationEventMulticaster.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/concurrent/ConcurrentMapCacheManager.java
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* /spring-context-6-2-8-sources-jar/org/springframework/validation/Errors.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/annotation/AsyncAnnotationBeanPostProcessor.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/ConfigurableApplicationContext.java
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* /spring-context-6-2-8-sources-
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* /spring-context-6-2-8-sources-jar/org/springframework/validation/beanvalidation/SpringValidatorAdapter.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/expression/BeanExpressionContextAccessor.java
* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/config/Task.java
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* /spring-context-6-2-8-sources-jar/org/springframework/context/event/ApplicationContextEvent.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/CacheOperation.java
* /spring-context-6-2-8-sources-jar/org/springframework/instrument/classloading/ReflectiveLoadTimeWeaver.java
* /spring-context-6-2-8-sources-
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* /spring-context-6-2-8-sources-
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* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/annotation/AsyncAnnotationAdvisor.java
* /spring-context-6-2-8-sources-
jar/org/springframework/format/support/FormattingConversionServiceFactoryBean.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/event/ContextStartedEvent.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/support/AbstractCacheManager.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/support/BeanDefinitionDsl.kt
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* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/concurrent/ThreadPoolTaskExecutor.java
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* /spring-context-6-2-8-sources-jar/org/springframework/scripting/groovy/GroovyScriptEvaluator.java
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 /spring-context-6-2-8-sources-jar/org/springframework/validation/FieldError.java
* /spring-context-6-2-8-sources-jar/org/springframework/context/weaving/DefaultContextLoadTimeWeaver.java
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* /spring-context-6-2-8-sources-jar/org/springframework/scheduling/TriggerContext.java
* /spring-context-6-2-8-sources-jar/org/springframework/format/support/FormattingConversionService.java
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* /spring-context-6-2-8-sources-jar/org/springframework/format/datetime/standard/DateTimeConverters.java
* /spring-context-6-2-8-sources-jar/org/springframework/cache/interceptor/SimpleKey.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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1.78 spring-tx 6.2.8

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* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/support/ResourceTransactionDefinition.java
*
 /spring-tx-6-2-8-sources-jar/org/springframework/transaction/jta/JtaTransactionObject.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java
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* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/InvalidTimeoutException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/support/ResourceHolderSupport.java
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* /spring-tx-6-2-8-sources-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/jta/UserTransactionAdapter.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/config/TxNamespaceHandler.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/support/ResourceTransactionManager.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/IllegalTransactionStateException.java
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* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/UnexpectedRollbackException.java
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* /spring-tx-6-2-8-sources-
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* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorExtensions.kt
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/TransactionDefinition.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/reactive/TransactionalOperatorImpl.java
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* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/TransactionStatus.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/reactive/TransactionContextManager.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/reactive/TransactionalOperator.java
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 /spring-tx-6-2-8-sources-jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java
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jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/PlatformTransactionManager.java
* /spring-tx-6-2-8-sources-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/jta/JtaTransactionManager.java
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* /spring-tx-6-2-8-sources-jar/org/springframework/dao/OptimisticLockingFailureException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java
*
 /spring-tx-6-2-8-sources-jar/org/springframework/dao/NonTransientDataAccessException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/DataAccessResourceFailureException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/TransientDataAccessException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/UncategorizedDataAccessException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/DataAccessException.java
* /spring-tx-6-2-8-sources-
jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java
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* /spring-tx-6-2-8-sources-jar/org/springframework/dao/CannotAcquireLockException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/DeadlockLoserDataAccessException.java
*
 /spring-tx-6-2-8-sources-jar/org/springframework/dao/DuplicateKeyException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/HeuristicCompletionException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/CleanupFailureDataAccessException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/PessimisticLockingFailureException.java
* /spring-tx-6-2-8-sources-jar/org/springframework/dao/CannotSerializeTransactionException.java
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* /spring-tx-6-2-8-sources-
jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java
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* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/reactive/TransactionContextHolder.java
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 /spring-tx-6-2-8-sources-jar/org/springframework/transaction/reactive/TransactionSynchronization.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/support/WithoutTransactionOperations.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/reactive/ReactiveResourceSynchronization.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/interceptor/TransactionAttribute.java
* /spring-tx-6-2-8-sources-jar/org/springframework/transaction/support/TransactionOperations.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/SpelParseException.java
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jar/org/springframework/expression/spel/support/ReflectiveConstructorExecutor.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/OperatorOverloader.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/InlineList.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/PropertyOrFieldReference.java
* /spring-expression-6-2-8-sources-
jar/org/springframework/expression/spel/support/DataBindingPropertyAccessor.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/CompilablePropertyAccessor.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/IndexAccessor.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/MethodReference.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/TypeCode.java
* /spring-expression-6-2-8-sources-
jar/org/springframework/expression/spel/standard/InternalSpelExpressionParser.java
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 /spring-expression-6-2-8-sources-jar/org/springframework/expression/ParserContext.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/TypeReference.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/BeanReference.java
* /spring-expression-6-2-8-sources-
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OpDec.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/support/SimpleEvaluationContext.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/Assign.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/SpelParserConfiguration.java
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 /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/SpelCompilerMode.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/ConstructorReference.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OperatorBetween.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/SpelNode.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/TypedValue.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/BeanResolver.java
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 /spring-expression-6-2-8-sources-jar/org/springframework/expression/TargetedAccessor.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/AccessorUtils.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/EvaluationContext.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/FormatHelper.java

* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/FunctionReference.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/Indexer.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/MethodExecutor.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/SpelEvaluationException.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/CompilableIndexAccessor.java
* /spring-expression-6-2-8-sources-
jar/org/springframework/expression/common/TemplateAwareExpressionParser.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/Selection.java
*
/spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/SpelNodeImpl.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/VariableReference.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/Projection.java
* /spring-expression-6-2-8-sources-
jar/org/springframework/expression/spel/support/ReflectiveConstructorResolver.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/ExpressionParser.java
*
/spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ExpressionState.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OpInc.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/standard/Tokenizer.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OperatorInstanceof.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/IntLiteral.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OpNE.java

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/spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OpOr.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/NullLiteral.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/BooleanLiteral.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/LongLiteral.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OpEQ.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OpAnd.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/FloatLiteral.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OpMinus.java
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* /spring-expression-6-2-8-sources-jar/org/springframework/expression/TypeLocator.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OpMultiply.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/OperatorMatches.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/support/StandardTypeComparator.java
* /spring-expression-6-2-8-sources-jar/org/springframework/expression/spel/ast/Literal.java

1.80 fastapi 0.115.13

1.80.1 Available under license :

```
name: FastAPI People Contributors

on:
 schedule:
   - cron: "0 3 1 * *"
 workflow_dispatch:
   inputs:
     debug_enabled:
       description: "Run the build with tmate debugging enabled (https://github.com/marketplace/actions/debugging-with-tmate)"
       required: false
       default: "false"

env:
 UV_SYSTEM_PYTHON: 1

jobs:
 job:
   if: github.repository_owner == 'fastapi'
   runs-on: ubuntu-latest
   permissions:
     contents: write
   steps:
     - name: Dump GitHub context
       env:
         GITHUB_CONTEXT: ${{ toJson(github) }}
       run: echo "$GITHUB_CONTEXT"
     - uses: actions/checkout@v4
     - name: Set up Python
       uses: actions/setup-python@v5
       with:
         python-version: "3.11"
     - name: Setup uv
       uses: astral-sh/setup-uv@v6
       with:
         version: "0.4.15"
         enable-cache: true
         cache-dependency-glob: |
           requirements**.txt
           pyproject.toml
     - name: Install Dependencies
       run: uv pip install -r requirements-github-actions.txt
     # Allow debugging with tmate
     - name: Setup tmate session
       uses: mxschmitt/action-tmate@v3
       if: ${{ github.event_name == 'workflow_dispatch' && github.event.inputs.debug_enabled == 'true' }}
       with:
```

```
        limit-access-to-actor: true
      env:
        GITHUB_TOKEN: ${{ secrets.FASTAPI_PR_TOKEN }}
    - name: FastAPI People Contributors
      run: python ./scripts/contributors.py
      env:
        GITHUB_TOKEN: ${{ secrets.FASTAPI_PR_TOKEN }}
```

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LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM,
OUT OF
 OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN
THE SOFTWARE.

```
tiangolo:
 login: tiangolo
 count: 747
 avatarUrl:
https://avatars.githubusercontent.com/u/1326112?u=cb5d06e73a9e1998141b1641aa88e443c6717651&v=4
 url: https://github.com/tiangolo
dependabot:
 login: dependabot
 count: 102
 avatarUrl: https://avatars.githubusercontent.com/in/29110?v=4
 url: https://github.com/apps/dependabot
alejsdev:
 login: alejsdev
 count: 47
 avatarUrl:
https://avatars.githubusercontent.com/u/90076947?u=638c65283ac9e9e2c3a0f9d1e3370db4b8a2c58d&v=4
 url: https://github.com/alejsdev
pre-commit-ci:
 login: pre-commit-ci
```

count: 30
avatarUrl: https://avatars.githubusercontent.com/in/68672?v=4
url: https://github.com/apps/pre-commit-ci
github-actions:
login: github-actions
count: 26
avatarUrl: https://avatars.githubusercontent.com/in/15368?v=4
url: https://github.com/apps/github-actions
Kludex:
login: Kludex
count: 23
avatarUrl:
https://avatars.githubusercontent.com/u/7353520?u=df8a3f06ba8f55ae1967a3e2d5ed882903a4e330&v=4
url: https://github.com/Kludex
dmontagu:
login: dmontagu
count: 17
avatarUrl:
https://avatars.githubusercontent.com/u/35119617?u=540f30c937a6450812628b9592a1dfe91bbe148e&v=4
url: https://github.com/dmontagu
euri10:
login: euri10
count: 13
avatarUrl:
https://avatars.githubusercontent.com/u/1104190?u=321a2e953e6645a7d09b732786c7a8061e0f8a8b&v=4
url: https://github.com/euri10
kantandane:
login: kantandane
count: 13
avatarUrl:
https://avatars.githubusercontent.com/u/3978368?u=cccc199291f991a73b1ebba5abc735a948e0bd16&v=4
url: https://github.com/kantandane
nilslindemann:
login: nilslindemann
count: 11
avatarUrl:
https://avatars.githubusercontent.com/u/6892179?u=1dca6a22195d6cd1ab20737c0e19a4c55d639472&v=4
url: https://github.com/nilslindemann
zhaohan-dong:
login: zhaohan-dong
count: 11
avatarUrl:
https://avatars.githubusercontent.com/u/65422392?u=8260f8781f50248410ebfa4c9bf70e143fe5c9f2&v=4
url: https://github.com/zhaohan-dong
mariacamilagl:
login: mariacamilagl

count: 9
avatarUrl:
https://avatars.githubusercontent.com/u/11489395?u=4adb6986bf3debfc2b8216ae701f2bd47d73da7d&v=4
url: https://github.com/mariacamilagl
handabaldeep:
login: handabaldeep
count: 9
avatarUrl:
https://avatars.githubusercontent.com/u/12239103?u=6c39ef15d14c6d5211f5dd775cc4842f8d7f2f3a&v=4
url: https://github.com/handabaldeep
vishnuvskvkl:
login: vishnuvskvkl
count: 8
avatarUrl:
https://avatars.githubusercontent.com/u/84698110?u=8af5de0520dd4fa195f53c2850a26f57c0f6bc64&v=4
url: https://github.com/vishnuvskvkl
svlandeg:
login: svlandeg
count: 7
avatarUrl:
https://avatars.githubusercontent.com/u/8796347?u=556c97650c27021911b0b9447ec55e75987b0e8a&v=4
url: https://github.com/svlandeg
alissadb:
login: alissadb
count: 6
avatarUrl:
https://avatars.githubusercontent.com/u/96190409?u=be42d85938c241be781505a5a872575be28b2906&v=4
url: https://github.com/alissadb
wshayes:
login: wshayes
count: 5
avatarUrl: https://avatars.githubusercontent.com/u/365303?u=07ca03c5ee811eb0920e633cc3c3db73dbec1aa5&v=4
url: https://github.com/wshayes
samuelcolvin:
login: samuelcolvin
count: 5
avatarUrl:
https://avatars.githubusercontent.com/u/4039449?u=42eb3b833047c8c4b4f647a031eaef148c16d93f&v=4
url: https://github.com/samuelcolvin
waynerv:
login: waynerv
count: 5
avatarUrl:
https://avatars.githubusercontent.com/u/39515546?u=ec35139777597cdbbbddda29bf8b9d4396b429a9&v=4
url: https://github.com/waynerv
krishnamadhavan:
login: krishnamadhavan
count: 5

avatarUrl:
https://avatars.githubusercontent.com/u/31798870?u=950693b28f3ae01105fd545c046e46ca3d31ab06&v=4
url: https://github.com/krishnamadhavan
alv2017:
login: alv2017
count: 5
avatarUrl: https://avatars.githubusercontent.com/u/31544722?v=4
url: https://github.com/alv2017
jekirl:
login: jekirl
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/2546697?u=a027452387d85bd4a14834e19d716c99255fb3b7&v=4
url: https://github.com/jekirl
hitrust:
login:
hitrust
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/3360631?u=5fa1f475ad784d64eb9666bdd43cc4d285dcc773&v=4
url: https://github.com/hitrust
ShahriyarR:
login: ShahriyarR
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/3852029?u=c9a1691e5ebdc94cbf543086099a6ed705cdb873&v=4
url: https://github.com/ShahriyarR
adriangb:
login: adriangb
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/1755071?u=612704256e38d6ac9cbed24f10e4b6ac2da74ecb&v=4
url: https://github.com/adriangb
iudeen:
login: iudeen
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/10519440?u=f09cdd745e5bf16138f29b42732dd57c7f02bee1&v=4
url: https://github.com/iudeen
philipokiokio:
login: philipokiokio
count: 4
avatarUrl:
https://avatars.githubusercontent.com/u/55271518?u=d30994d339aaaf1f6bf1b8fc810132016fbd4fdc&v=4
url: https://github.com/philipokiokio
AlexWendland:
login: AlexWendland
count: 4

avatarUrl:
https://avatars.githubusercontent.com/u/3949212?u=c4c0c615e0ea33d00bfe16b779cf6ebc0f58071c&v=4
url: https://github.com/AlexWendland
divums:
login: divums
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/1397556?v=4
url: https://github.com/divums
prostomarkeloff:
login: prostomarkeloff
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/28061158?u=6918e39a1224194ba636e897461a02a20126d7ad&v=4
url: https://github.com/prostomarkeloff
nsidnev:
login: nsidnev
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/22559461?u=a9cc3238217e21dc8796a1a500f01b722adb082c&v=4
url: https://github.com/nsidnev
pawamoy:
login: pawamoy
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/3999221?u=b030e4c89df2f3a36bc4710b925bdeb6745c9856&v=4
url: https://github.com/pawamoy
patrickmckenna:
login: patrickmckenna
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/3589536?u=53aef07250d226d35e526768e26891964907b41a&v=4
url: https://github.com/patrickmckenna
hukkin:
login: hukkin
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/3275109?u=77bb83759127965eacbfe67e2ca983066e964fde&v=4
url: https://github.com/hukkin
marcosmmb:
login: marcosmmb
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/6181089?u=03c50eec631857d84df5232890780d00a3f76903&v=4
url: https://github.com/marcosmmb
Serrones:
login: Serrones
count: 3
avatarUrl:

https://avatars.githubusercontent.com/u/22691749?u=4795b880e13ca33a73e52fc0ef7dc9c60c8fce47&v=4
 url: https://github.com/Serrones
uriyyo:
 login: uriyyo
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/32038156?u=a27b65a9ec3420586a827a0facccbb8b6df1ffb3&v=4
 url: https://github.com/uriyyo
andrew222651:
 login: andrew222651
 count: 3
 avatarUrl: https://avatars.githubusercontent.com/u/889657?u=d70187989940b085bcbfa3bedad8dbc5f3ab1fe7&v=4
 url: https://github.com/andrew222651
rkbeatss:
 login: rkbeatss
 count: 3
 avatarUrl: https://avatars.githubusercontent.com/u/23391143?u=56ab6bff50be950fa8cae5cf736f2ae66e319ff3&v=4
  url: https://github.com/rkbeatss
asheux:
 login: asheux
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/22955146?u=4553ebf5b5a7c7fe031a46182083aa224faba2e1&v=4
 url: https://github.com/asheux
n25a:
 login: n25a
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/49960770?u=7d8a6d5f0a75a5e9a865a2527edfd48895ea27ae&v=4
 url: https://github.com/n25a
ghandic:
 login: ghandic
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/23500353?u=e2e1d736f924d9be81e8bfc565b6d8836ba99773&v=4
 url: https://github.com/ghandic
TeoZosa:
 login: TeoZosa
 count: 3
 avatarUrl:
https://avatars.githubusercontent.com/u/13070236?u=96fdae85800ef85dcfcc4b5f8281dc8778c8cb7d&v=4
 url: https://github.com/TeoZosa
graingert:
 login: graingert
 count: 3
 avatarUrl: https://avatars.githubusercontent.com/u/413772?v=4
 url: https://github.com/graingert
jaystone776:

login: jaystone776
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/11191137?u=299205a95e9b6817a43144a48b643346a5aac5cc&v=4
url: https://github.com/jaystone776
zanieb:
login: zanieb
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/2586601?u=e5c86f7ff3b859e7e183187ac2b17fd6ee32b3ab&v=4
url: https://github.com/zanieb
MicaelJarniac:
login: MicaelJarniac
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/19514231?u=158c91874ea98d6e9e6f0c6db37ee2ce60c55ff2&v=4
url: https://github.com/MicaelJarniac
papb:
login: papb
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/20914054?u=890511fae7ea90d887e2a65ce44a1775abba38d5&v=4
url: https://github.com/papb
musicinmybrain:
login: musicinmybrain
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/6898909?u=9010312053e7141383b9bdf538036c7f37fbaba0&v=4
url: https://github.com/musicinmybrain
gitworkflows:
login: gitworkflows
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/118260833?v=4
url:
https://github.com/gitworkflows
Nimitha-jagadeesha:
login: Nimitha-jagadeesha
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/58389915?v=4
url: https://github.com/Nimitha-jagadeesha
lucaromagnoli:
login: lucaromagnoli
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/38782977?u=e66396859f493b4ddcb3a837a1b2b2039c805417&v=4
url: https://github.com/lucaromagnoli
salmantec:
login: salmantec
count: 3

avatarUrl:
https://avatars.githubusercontent.com/u/41512228?u=443551b893ff2425c59d5d021644f098cf7c68d5&v=4
url: https://github.com/salmantec
OCE1960:
login: OCE1960
count: 3
avatarUrl:
https://avatars.githubusercontent.com/u/45076670?u=0e9a44712b92ffa89ddfbaa83c112f3f8e1d68e2&v=4
url: https://github.com/OCE1960
hamidrasti:
login: hamidrasti
count: 3
avatarUrl: https://avatars.githubusercontent.com/u/43915620?v=4
url: https://github.com/hamidrasti
kkinder:
login: kkinder
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/1115018?u=c5e90284a9f5c5049eae1bb029e3655c7dc913ed&v=4
url: https://github.com/kkinder
kabirkhan:
login: kabirkhan
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/13891834?u=e0eabf792376443ac853e7dca6f550db4166fe35&v=4
url: https://github.com/kabirkhan
zamiramir:
login: zamiramir
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/40475662?u=e58ef61034e8d0d6a312cc956fb09b9c3332b449&v=4
url: https://github.com/zamiramir
trim21:
login: trim21
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/13553903?u=3cadf0f02095c9621aa29df6875f53a80ca4fbfb&v=4
url: https://github.com/trim21
koxudaxi:
login: koxudaxi
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/630670?u=507d8577b4b3670546b449c4c2ccbc5af40d72f7&v=4
url: https://github.com/koxudaxi
pablogamboa:
login: pablogamboa
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/12892536?u=326a57059ee0c40c4eb1b38413957236841c631b&v=4

```
 url: https://github.com/pablogamboa
dconathan:
  login: dconathan
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/15098095?v=4
 url: https://github.com/dconathan
Jamim:
 login: Jamim
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/5607572?u=9ce0b6a6d1a5124e28b3c04d8d26827ca328713a&v=4
 url: https://github.com/Jamim
svalouch:
 login: svalouch
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/54674660?v=4
 url: https://github.com/svalouch
frankie567:
 login: frankie567
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1144727?u=c159fe047727aedecbbeeaa96a1b03ceb9d39add&v=4
 url: https://github.com/frankie567
marier-nico:
 login: marier-nico
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/30477068?u=c7df6af853c8f4163d1517814f3e9a0715c82713&v=4
 url: https://github.com/marier-nico
Dustyposa:
 login: Dustyposa
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/27180793?u=5cf2877f50b3eb2bc55086089a78a36f07042889&v=4
  url: https://github.com/Dustyposa
aviramha:
 login: aviramha
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/41201924?u=6883cc4fc13a7b2e60d4deddd4be06f9c5287880&v=4
 url: https://github.com/aviramha
iwpnd:
 login: iwpnd
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/6152183?u=ec59396e9437fff488791c5ecdf6d23f1f1ebf3a&v=4
 url: https://github.com/iwpnd
raphaelauv:
 login: raphaelauv
```

count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/10202690?u=e6f86f5c0c3026a15d6b51792fa3e532b12f1371&v=4
url: https://github.com/raphaelauv
windson:
login: windson
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/1826682?u=8b28dcd716c46289f191f8828e01d74edd058bef&v=4
url: https://github.com/windson
sm-Fifteen:
login: sm-Fifteen
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/516999?u=437c0c5038558c67e887ccd863c1ba0f846c03da&v=4
url: https://github.com/sm-Fifteen
sattosan:
login: sattosan
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/20574756?u=b0d8474d2938189c6954423ae8d81d91013f80a8&v=4
url: https://github.com/sattosan
michaeloliverx:
login: michaeloliverx
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/55017335?u=efb0cb6e261ff64d862fafb91ee80fc2e1f8a2ed&v=4
url: https://github.com/michaeloliverx
voegtlel:
login: voegtlel
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/5764745?u=db8df3d70d427928ab6d7dbfc395a4a7109c1d1b&v=4
url: https://github.com/voegtlel
HarshaLaxman:
login: HarshaLaxman
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/19939186?u=a112f38b0f6b4d4402dc8b51978b5a0b2e5c5970&v=4
url: https://github.com/HarshaLaxman
RunningIkkyu:
login: RunningIkkyu
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/31848542?u=494ecc298e3f26197495bb357ad0f57cfd5f7a32&v=4
url: https://github.com/RunningIkkyu
cassiobotaro:
login: cassiobotaro
count: 2
avatarUrl:

https://avatars.githubusercontent.com/u/3127847?u=a08022b191ddbd0a6159b2981d9d878b6d5bb71f&v=4
  url: https://github.com/cassiobotaro
chenl:
 login: chenl
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1677651?u=c618508eaad6d596cea36c8ea784b424288f6857&v=4
 url: https://github.com/chenl
retnikt:
 login: retnikt
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/24581770?v=4
 url: https://github.com/retnikt
yankeexe:
 login: yankeexe
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/13623913?u=f970e66421775a8d3cdab89c0c752eaead186f6d&v=4
 url: https://github.com/yankeexe
patrickkwang:
 login: patrickkwang
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/1263870?u=4bf74020e15be490f19ef8322a76eec882220b96&v=4
 url: https://github.com/patrickkwang
victorphoenix3:
 login: victorphoenix3
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/48182195?u=e4875bd088623cb4ddeb7be194ec54b453aff035&v=4
 url: https://github.com/victorphoenix3
davidefiocco:

 login: davidefiocco
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/4547987?v=4
 url: https://github.com/davidefiocco
adriencaccia:
 login: adriencaccia
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/19605940?u=980b0b366a02791a5600b2e9f9ac2037679acaa8&v=4
 url: https://github.com/adriencaccia
jamescurtin:
 login: jamescurtin
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/10189269?u=0b491fc600ca51f41cf1d95b49fa32a3eba1de57&v=4

url: https://github.com/jamescurtin
jmriebold:
login: jmriebold
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/6983392?u=4efdc97bf2422dcc7e9ff65b9ff80087c8eb2a20&v=4
url: https://github.com/jmriebold
nukopy:
login: nukopy
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/42367320?u=6061be0bd060506f6d564a8df3ae73fab048cdfe&v=4
url: https://github.com/nukopy
imba-tjd:
login: imba-tjd
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/24759802?u=01e901a4fe004b4b126549d3ff1c4000fe3720b5&v=4
url: https://github.com/imba-tjd
johnthagen:
login: johnthagen
count: 2
avatarUrl:
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url: https://github.com/johnthagen
paxcodes:
login: paxcodes
count: 2
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url: https://github.com/paxcodes
kaustubhgupta:
login: kaustubhgupta
count: 2
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count: 2
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url: https://github.com/kinuax
wakabame:
login: wakabame
count: 2
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  login: nzig
 count: 2
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 url: https://github.com/nzig
yezz123:
 login: yezz123
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/52716203?u=d7062cbc6eb7671d5dc9cc0e32a24ae335e0f225&v=4
 url: https://github.com/yezz123
softwarebloat:
 login: softwarebloat
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/16540684?v=4
 url: https://github.com/softwarebloat
Lancetnik:
 login: Lancetnik
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/44573917?u=f9a18be7324333daf9cc314c35c3051f0a20a7a6&v=4
 url: https://github.com/Lancetnik
joakimnordling:
 login: joakimnordling
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/6637576?u=df5d99db9b899b399effd429f4358baaa6f7199c&v=4
 url: https://github.com/joakimnordling
yogabonito:
 login: yogabonito
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/7026269?v=4
 url:
 https://github.com/yogabonito
s111d:
 login: s111d
 count: 2
 avatarUrl: https://avatars.githubusercontent.com/u/4954856?v=4
 url: https://github.com/s111d
estebanx64:
 login: estebanx64
 count: 2
 avatarUrl:
https://avatars.githubusercontent.com/u/10840422?u=45f015f95e1c0f06df602be4ab688d4b854cc8a8&v=4
 url: https://github.com/estebanx64
tamird:
 login: tamird

count: 2
avatarUrl: https://avatars.githubusercontent.com/u/1535036?v=4
url: https://github.com/tamird
rabinlamadong:
login: rabinlamadong
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/170439781?v=4
url: https://github.com/rabinlamadong
AyushSinghal1794:
login: AyushSinghal1794
count: 2
avatarUrl: https://avatars.githubusercontent.com/u/89984761?v=4
url: https://github.com/AyushSinghal1794
gsheni:
login: gsheni
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/8726321?u=ee3bd9ff6320f4715d1dd9671a3d55cccb65b984&v=4
url: https://github.com/gsheni
DanielKusyDev:
login:
DanielKusyDev
count: 2
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https://avatars.githubusercontent.com/u/36250676?u=2ea6114ff751fc48b55f231987a0e2582c6b1bd2&v=4
url: https://github.com/DanielKusyDev
DanielYang59:
login: DanielYang59
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/80093591?u=63873f701c7c74aac83c906800a1dddc0bc8c92f&v=4
url: https://github.com/DanielYang59
blueswen:
login: blueswen
count: 2
avatarUrl:
https://avatars.githubusercontent.com/u/1564148?u=6d6b8cc8f2b5cef715e68d6175154a8a94d518ee&v=4
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1.81 jackson-annotations 2.19.1

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Jackson JSON processor

Jackson is a high-performance, Free/Open Source JSON processing library.
It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
been in development since 2007.
It is currently developed by a community of developers.

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1.82 spring-data-commons 3.5.1

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1.83 hibernate 6.6.18.Final

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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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* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/internal/FastSessionServices.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/MySQLStorageEngine.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/AssertionFailure.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/registry/selector/StrategyRegistration.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobCreatorBuilderImpl.java
*
/hibernate-core-6-6-18-final-sources-jar/org/hibernate/engine/query/spi/AbstractParameterDescriptor.java
* /hibernate-core-6-6-18-final-sources-
jar/org/hibernate/service/internal/SessionFactoryServiceRegistryBuilderImpl.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/unique/UniqueDelegate.java
* /hibernate-core-6-6-18-final-sources-
jar/org/hibernate/boot/model/source/spi/SingularAttributeSourceOneToOne.java
* /hibernate-core-6-6-18-final-sources-
jar/org/hibernate/property/access/internal/PropertyAccessStrategyResolverStandardImpl.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/id/enhanced/DatabaseStructure.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/stat/internal/CollectionStatisticsImpl.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/procedure/internal/Util.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/spi/NativeQueryArrayTransformer.java
*
/hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/InFragment.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/tuple/component/AbstractCompositionAttribute.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/type/descriptor/sql/internal/DdlTypeImpl.java
* /hibernate-core-6-6-18-final-sources-
jar/org/hibernate/boot/model/source/internal/hbm/PluralAttributeElementSourceManyToAnyImpl.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/archive/scan/spi/ClassFileArchiveEntryHandler.java

* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/property/access/spi/SetterFieldImpl.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/service/package-info.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/source/internal/hbm/SizeSourceImpl.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/source/spi/AttributeSourceContainer.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/lock/OptimisticLockingStrategy.java
*
 /hibernate-core-6-6-18-final-sources-jar/org/hibernate/annotations/Subselect.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/pagination/LegacyHSQLLimitHandler.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/cache/internal/CacheKeyImplementation.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/mapping/MetaAttribute.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/PostgreSQLArrayJdbcTypeConstructor.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/type/descriptor/java/NClobJavaType.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/archive/scan/spi/ScanResult.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/engine/jdbc/env/internal/DefaultSchemaNameResolver.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/source/spi/ToolingHintContextContainer.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/bytecode/internal/ProxyFactoryFactoryInitiator.java
*
 /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/source/spi/IdentifierSourceSimple.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/type/descriptor/java/SerializableJavaType.java
* /hibernate-core-6-6-18-final-sources-
jar/org/hibernate/bytecode/enhance/internal/bytebuddy/ByteBuddyEnhancementContext.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/JsonHelper.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/annotations/FetchProfileOverrides.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/service/spi/SessionFactoryServiceRegistry.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/event/spi/EntityCopyObserver.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/annotations/Array.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/internal/util/QuotingHelper.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/spi/NativeQueryListTransformer.java
*
 /hibernate-core-6-6-18-final-sources-jar/org/hibernate/type/CustomType.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/annotations/NamedQueries.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/annotations/SortComparator.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/sequence/package-info.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/annotations/FilterDefs.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/lock/AbstractSelectLockingStrategy.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/result/internal/OutputsExecutionContext.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/event/internal/DefaultDeleteEventListener.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/tool/schema/spi/SchemaFilterProvider.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/source/spi/AnyDiscriminatorSource.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/pagination/AbstractNoOffsetLimitHandler.java
*
 /hibernate-core-6-6-18-final-sources-jar/org/hibernate/id/enhanced/LegacyNamingStrategy.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/MappingException.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/id/insert/UniqueKeySelectingDelegate.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/tool/schema/internal/exec/GenerationTargetToScript.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/tuple/PojoInstantiator.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/tool/schema/internal/exec/ScriptTargetOutputToStdout.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/procedure/ProcedureCall.java

* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/source/spi/NaturalIdMutability.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/engine/jdbc/cursor/internal/package-info.java
* /hibernate-core-6-6-18-final-sources-
jar/org/hibernate/id/factory/internal/StandardIdentifierGeneratorFactoryInitiator.java
*
 /hibernate-core-6-6-18-final-sources-jar/org/hibernate/event/spi/PersistEvent.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/spi/AbstractDelegatingSessionFactoryOptions.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/internal/CoreLogging.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/bytecode/internal/bytebuddy/PassThroughInterceptor.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/source/spi/PluralAttributeIndexNature.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/source/spi/AttributeSource.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/cache/internal/DefaultCacheKeysFactory.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/mapping/IndexBackref.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/engine/internal/BatchFetchQueueHelper.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/tool/schema/internal/exec/ScriptSourceInputFromUrl.java
*
 /hibernate-core-6-6-18-final-sources-jar/org/hibernate/event/spi/PreCollectionRemoveEvent.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/engine/spi/CascadeStyle.java
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/internal/util/NullnessUtil.java

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* See the lgpl.txt file in the root directory or http://www.gnu.org/licenses/lgpl-2.1.html
*/
/**
  * Subclass used to simply instantiation of singular attributes representing an entity's
  * version.
  */
```

Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/metamodel/model/domain/internal/SingularAttributeImpl.java
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* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/orm_3_1.xsd
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```

Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/orm_2_2.xsd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/persistence_2_2.xsd
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```
/*
```

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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 <em>not</em> entail locking,
* and there is <em>not</em> 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 <em>completed</em> 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 <em>not</em> throw {@link java.util.ConcurrentModificationException}.
* However,
 iterators are designed to be used by only one thread at a time.
* <p>
* <p> 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.
* <p>
* <p>This class and its views and iterators implement all of the
* <em>optional</em> methods of the {@link Map} and {@link Iterator}
* interfaces.
* <p>
* <p>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</p>
* <p>
* <p>
* <p> Like {@link java.util.Hashtable} but unlike {@link HashMap}, this class
* does <em>not</em> 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-6-6-18-final-sources-jar/org/hibernate/internal/util/collections/BoundedConcurrentHashMap.java
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*/
//  "proprietary" methods is better (this class is "proprietary" too).
```

Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/graph/EntityGraphs.java
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```
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*/
// It supports a proprietary operator

Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/MariaDBSqlAstTranslator.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/MySQLSqlAstTranslator.java
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Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/hibernate-mapping-3.0.dtd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/hibernate-configuration-3.0.dtd
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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
*   WAS version
*   the WAS container in which Hibernate will be utilized
*
* <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-6-6-18-final-sources-jar/org/hibernate/engine/transaction/jta/platform/internal/WebSphereExtendedJtaPlatform.java
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Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/xsd/mapping/mapping-3.1.0.xsd
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*/
//     "5.3 in upgrading.  It will be removed in a later version."
```

Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/internal/log/DeprecationLogger.java
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```
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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
 */
```

Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/tool/schema/extract/internal/AbstractInformationExtractorImpl.java
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Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/loader/internal/BaseNaturalIdLoadAccessImpl.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/query/sqm/mutation/internal/cte/CteSoftDeleteHandler.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/internal/CollectionPropertyHolder.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/spi/AdditionalMappingContributor.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/metamodel/mapping/AggregatedIdentifierMapping.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/NullnessRestriction.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/internal/QueryHintDefinition.java
*
 /hibernate-core-6-6-18-final-sources-
jar/org/hibernate/query/sqm/mutation/internal/SqmMultiTableMutationStrategyProviderInitiator.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/jaxb/mapping/DiscriminatedAssociation.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/persister/collection/mutation/RowMutationOperations.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/internal/AnnotatedJoinColumns.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/metamodel/mapping/AttributeMappingsList.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/persister/collection/mutation/DeleteRowsCoordinator.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/model/ast/builder/TableUpdateBuilderSkipped.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/persister/entity/mutation/EntityMutationTarget.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/internal/BaselineSessionEventsListenerBuilder.java
*
 /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/model/MutationTarget.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/loader/ast/spi/MultiKeyLoadSizingStrategy.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/model/EntityMutationOperationGroup.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/model/ast/builder/TableInsertBuilder.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/model/internal/TableInsertCustomSql.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/internal/ComponentPropertyHolder.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/type/StandardBooleanConverter.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/persister/entity/mutation/UpdateCoordinatorStandard.java
* /hibernate-core-6-6-18-final-sources-
jar/org/hibernate/boot/jaxb/mapping/marshall/ConstraintModeMarshalling.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/model/ast/builder/TableUpdateBuilderStandard.java
*
 /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/model/ast/ColumnValueBindingList.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/engine/jdbc/env/internal/LobCreationHelper.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/jaxb/hbm/transform/ColumnAndFormulaSource.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/persister/entity/mutation/AbstractDeleteCoordinator.java
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* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/loader/ast/spi/CollectionBatchLoader.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/internal/SimpleResourceLocator.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/annotations/ConverterRegistrations.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/engine/jdbc/mutation/internal/NoBatchKeyAccess.java
* /hibernate-core-6-6-18-final-sources-
jar/org/hibernate/metamodel/mapping/internal/OneToManyCollectionPart.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/cfg/StatisticsSettings.java
*
/hibernate-core-6-6-18-final-sources-
jar/org/hibernate/sql/results/jdbc/internal/JdbcValuesMappingProducerProviderInitiator.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/internal/Nullability.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/bytecode/enhance/VersionMismatchException.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/persister/collection/mutation/CollectionTableMapping.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/internal/SetBasicValueTypeSecondPass.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/model/ast/MutatingTableReference.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/model/internal/SimpleToOneFkSecondPass.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/boot/jaxb/spi/Binder.java
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/sql/exec/spi/JdbcOperationQueryInsert.java
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* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/xsd/mapping/legacy-mapping-4.0.xsd

* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/persistence_1_0.xsd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/hibernate-configuration-4.0.xsd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/orm_2_0.xsd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/persistence_2_0.xsd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/persistence_2_1.xsd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/xsd/cfg/legacy-configuration-4.0.xsd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/hibernate-mapping-4.0.xsd
*
 /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/orm_1_0.xsd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/orm_2_1.xsd
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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.)
  */
```

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*/
// public DomainResult createDomainResult(
```

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* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/query/sqm/tree/expression/SqmLiteralEntityType.java

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* /hibernate-core-6-6-18-final-sources-jar/META-INF/services/jakarta.persistence.spi.PersistenceProvider
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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
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*/
```

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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()
  */
```

Found in path(s):
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/cfg/JdbcSettings.java

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* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/persistence_3_1.xsd
* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/jpa/orm_3_0.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.
 *
 *

```
 * 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)
 */
```

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* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/cfg/ManagedBeanSettings.java
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*/
/**
 * Use the proprietary WITH ROLLUP or WITH CUBE clause.
 */
```

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* /hibernate-core-6-6-18-final-sources-jar/org/hibernate/dialect/GroupBySummarizationRenderingStrategy.java
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*/
/**
 * 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-6-6-18-final-sources-jar/org/hibernate/annotations/CacheConcurrencyStrategy.java

1.84 micrometer-core 1.15.1

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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1.87 jackson-databind 2.19.1

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1.92 spring-aspects 6.2.8

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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
*/

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/spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurerDelegate.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/support/SqlLobValue.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/GenericCallMetaDataProvider.java
*
/spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcInsert.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryRuntimeHints.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/JdbcOperations.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/xml/XmlCharacterStreamProvider.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/JdbcOperationsExtensions.kt
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/support/SqlCharacterValue.java
*
/spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseConfigurers.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/LobRetrievalFailureException.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/JdbcUtils.java
*
/spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/CallMetaDataProviderFactory.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterUtils.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/StoredProcedure.java
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*/
/**
  * Close this LobCreator session and free its temporarily created BLOBs and CLOBs.
  * Will not need to do anything if using PreparedStatement's standard methods,
  * but might be necessary to free database resources if using proprietary means.
  * <p><b>NOTE</b>: Needs to be invoked after the involved
 PreparedStatements have
  * been executed or the affected O/R mapping sessions have been flushed.
  * Otherwise, the database resources for the temporary BLOBs might stay allocated.
  */
```

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```

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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java

*
/spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/SqlQuery.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/StatementCreatorUtils.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/DataSourceUtils.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/simple/AbstractJdbcCall.java
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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/init/ScriptException.java
*
/spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractDataFieldMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/ColumnMapRowMapper.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/CallableStatementCallback.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/TableMetaDataProviderFactory.java
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jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
 * @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
  * Create a Map of input parameters, keyed by name.
  * @param con a JDBC connection. This is useful (and the purpose of this interface)
  * if we need to do something RDBMS-specific with a proprietary Connection
  * implementation class. This class conceals such proprietary details. However,
  * it is best to avoid using such proprietary RDBMS features if possible.
  * @return a Map of input parameters, keyed by name (never {@code null})
  * @throws SQLException if an SQLException is encountered setting
  * parameter values (that is, there's no need to catch SQLException)
  */

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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/namedparam/ParsedSql.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/KeyHolder.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java

*
 /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SqlParameter.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SqlParameterValue.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/DatabaseStartupValidator.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SqlReturnType.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/GeneratedKeyHolder.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:
*
* Simplify error handling, avoiding the need for try/catch/finally
* blocks in application code.
* Present exceptions to application code in a generic hierarchy of
* unchecked exceptions, enabling applications to catch data access
* exceptions without being dependent on JDBC, and to ignore fatal
* exceptions there is no value in catching.
* Allow the implementation of error handling to be modified
* to target different RDBMSes without introducing proprietary
* dependencies into application code.
*
*
* <p>This package and related packages are discussed in Chapter 9 of
* Expert One-On-One J2EE Design and Development
* by Rod Johnson (Wrox, 2002).
*/

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* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/support/incrementer/SqlServerSequenceMaxValueIncrementer.java
*
 /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/CallableStatementCreatorFactory.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/support/incrementer/H2SequenceMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java
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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/StatementCallback.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/InvalidResultSetAccessException.java
*
/spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/GenericSqlQuery.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/incrementer/Db2LuwMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/lookup/MapDataSourceLookup.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/ResultSetSupportingSqlParameter.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/ResultSetExtractor.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SqlTypeValue.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/support/incrementer/Db2MainframeMaxValueIncrementer.java
*
/spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/datasource/embedded/DerbyEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/OracleTableMetaDataProvider.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/SqlCall.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/HanaCallMetaDataProvider.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/UncategorizedSQLException.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/ConnectionCallback.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/SqlOperation.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/PostgresTableMetaDataProvider.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/PreparedStatementCallback.java
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jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SqlInOutParameter.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/PreparedStatementCreator.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/MappingSqlQuery.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistrar.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/CallableStatementCreator.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/SqlUpdate.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/TableParameterMetaData.java
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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/UpdatableSqlQuery.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/incrementer/OracleSequenceMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/support/AbstractSqlTypeValue.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/embedded/HsqlEmbeddedDatabaseConfigurer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/incrementer/PostgresSequenceMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java
*
/spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/DerbyTableMetaDataProvider.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/HsqlTableMetaDataProvider.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SqlReturnResultSet.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/SQLErrorCodes.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/incrementer/HsqlSequenceMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SqlOutParameter.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/ConnectionHandle.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/SqlReturnUpdateCount.java
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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/ParameterDisposer.java

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/spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/ConnectionProxy.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java
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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/SmartDataSource.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java
*
/spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/lookup/JndiDataSourceLookup.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/object/GenericStoredProcedure.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java
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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/init/ScriptUtils.java
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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/ArgumentTypePreparedStatementSetter.java
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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/SQLErrorCodeSQLExceptionTranslator.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/ShardingKeyDataSourceAdapter.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/SQLWarningException.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
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* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/ShardingKeyProvider.java
* /spring-jdbc-6-2-8-sources-
jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/CallParameterMetaData.java
*
 /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/ArgumentPreparedStatementSetter.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/RowMapper.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/namedparam/NamedParameterJdbcTemplate.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/SqlValue.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/DelegatingDataSource.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/support/JdbcTransactionManager.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java
* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java

* /spring-jdbc-6-2-8-sources-jar/org/springframework/jdbc/core/simple/DefaultJdbcClient.java
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jar/org/springframework/jdbc/core/namedparam/SimplePropertySqlParameterSource.java
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jar/org/springframework/jdbc/support/incrementer/MySQLIdentityColumnMaxValueIncrementer.java
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1.101 caffeine 3.2.1

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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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/spring-orm-6-2-8-sources-jar/org/springframework/orm/jpa/persistenceunit/SpringPersistenceUnitInfo.java
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jar/org/springframework/orm/jpa/support/PersistenceAnnotationBeanPostProcessor.java
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* /spring-orm-6-2-8-sources-jar/org/springframework/orm/hibernate5/SpringFlushSynchronization.java
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/**
  * Create a transactional EntityManager proxy for the given EntityManagerFactory.
  * @param emf the EntityManagerFactory to obtain EntityManagers from as needed
  * @param properties the properties to be passed into the
  * {@code createEntityManager} call (may be {@code null})
  * @param entityManagerInterfaces
 the interfaces to be implemented by the
  * EntityManager. Allows the addition or specification of proprietary interfaces.
  * @return a shareable transactional EntityManager proxy
  */
```

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* /spring-orm-6-2-8-sources-jar/org/springframework/orm/hibernate5/support/OpenSessionInViewFilter.java
*
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// MessageId: ERROR_DS_CONFIDENTIALITY_REQUIRED
// version.
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Found in path(s):
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IComEnumVariantIterator.java
*
 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/Winsock2.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/ShTypes.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IEnumVariant.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/EnumVariant.java
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/linux/Mman.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/linux/Fcntl.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/linux/Udev.java
*
 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/linux/LibRT.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/unix/aix/SharedObjectLoader.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/unix/LibCUtil.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/unix/aix/Perfstat.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/linux/ErrNo.java
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Found in path(s):
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/linux/LibC.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/unix/solaris/LibKstat.java
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/W32ServiceManager.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/W32Service.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/Winsvc.java
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/DesktopWindow.java
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Found in path(s):
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/Shell32.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/Kernel32.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/User32.java
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/mac/IOKit.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/mac/IOKitUtil.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/mac/DiskArbitration.java
*
/jna-platform-5-17-0-sources-jar/com/sun/jna/platform/mac/IOReturnException.java
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/**
   * <code>
   BOOL WINAPI CreateProcessWithLogonW(
   _In_   LPCWSTR lpUsername,

```
  _In_opt_    LPCWSTR lpDomain,
  _In_        LPCWSTR lpPassword,
  _In_        DWORD dwLogonFlags,
   _In_opt_    LPCWSTR lpApplicationName,
  _Inout_opt_  LPWSTR lpCommandLine,
  _In_        DWORD dwCreationFlags,
  _In_opt_    LPVOID lpEnvironment,
  _In_opt_    LPCWSTR lpCurrentDirectory,
  _In_        LPSTARTUPINFOW lpStartupInfo,
  _Out_       LPPROCESS_INFORMATION lpProcessInfo
  );
  * </code>
  *
  * @param lpUsername
  *          [in]<br>
  *          The name of the user. This is the name of the user account to
  *          log on to. <br>
  *          If you use the UPN format, user@DNS_domain_name, the lpDomain
  *          parameter must be NULL.<br>
  *          The user account must have the Log On Locally permission on
  *          the local computer. <br>
  *          This permission is granted to all users on workstations and
  *          servers, but only to administrators on domain controllers.
  * @param lpDomain
  *          [in, optional]<br>
  *
The name of the domain or server whose account database
  *          contains the lpUsername account. <br>
  *          If this parameter is NULL, the user name must be specified in
  *          UPN format.
  * @param lpPassword
  *          [in]<br>
  *          The clear-text password for the lpUsername account.
  * @param dwLogonFlags
  *          [in]<br>
  *          The logon option. This parameter can be 0 (zero) or one of the
  *          following values. <br>
  *          LOGON_WITH_PROFILE: 0x00000001<br>
  *          Log on, then load the user profile in the HKEY_USERS registry
  *          key.<br>
  *          The function returns after the profile is loaded. <br>
  *          Loading the profile can be time-consuming, so it is best to
  *          use this value only if you must access the information in the
  *          HKEY_CURRENT_USER registry key.<br>
  *          Windows Server 2003:
The profile is unloaded after the new
  *          process is terminated, whether or not it has created child
  *          processes.<br>
```

```
     *          Windows XP: The profile is unloaded after the new process and
     *          all child processes it has created are terminated.<br>
     *          <br>
     *          LOGON_NETCREDENTIALS_ONLY: 0x00000002<br>
     *          Log on, but use the specified credentials on the network only.
     *          <br>
     *          The new process uses the same token as the caller, but the
     *          system creates a new logon session within LSA, and the process
     *          uses the specified credentials as the default credentials.
     *          <br>
     *          This value can be used to create a process that uses a
     *          different set of credentials locally than it does remotely.
     *          <br>
     *          This is useful in inter-domain scenarios where there is no
      *          trust relationship.<br>
     *          The system does not validate the specified credentials.<br>
     *          Therefore, the process can start, but it may not have access
     *          to network resources.
     * @param lpApplicationName
     *          [in, optional]<br>
     *          The name of the module to be executed. This module can be a
     *          Windows-based application.<br>
     *          It can be some other type of module (for example, MS-DOS or
     *          OS/2) if the appropriate subsystem is available on the local
     *          computer. The string can specify the full path and file name
     *          of the module to execute or it can specify a partial name.
     *          <br>
     *          If it is a partial name, the function uses the current drive
     *          and current directory to complete the specification. <br>
     *          The function does not use the search path. This parameter
    must
     *          include the file name extension; no default extension is
     *          assumed. The lpApplicationName parameter can be NULL, and the
     *          module name must be the first white space-delimited token in
     *          the lpCommandLine string.<br>
     *          If you are using a long file name that contains a space, use
     *          quoted strings to indicate where the file name ends and the
     *          arguments begin; otherwise, the file name is ambiguous. For
     *          example, the following string can be interpreted in different
     *          ways:<br>
     *          "c:\program files\sub dir\program name"<br>
     *          The system tries to interpret the possibilities in the
     *          following order:<br>
     *          <br>
     *          c:\program.exe files\sub dir\program name<br>
     *          c:\program files\sub.exe dir\program name<br>
     *          c:\program files\sub dir\program.exe
```

```
name<br>
     *          c:\program files\sub dir\program name.exe<br>
     *          <br>
     *          If the executable module is a 16-bit application,
     *          lpApplicationName should be NULL, and the string pointed to by
     *          lpCommandLine should specify the executable module and its
     *          arguments.
     * @param lpCommandLine
     *          [in, out, optional]<br>
     *          The command line to be executed. The maximum length of this
     *          string is 1024 characters. <br>
     *          If lpApplicationName is NULL, the module name portion of
     *          lpCommandLine is limited to MAX_PATH characters.<br>
     *          The function can modify the contents of this string. <br>
     *          Therefore, this parameter cannot be a pointer to read-only
     *          memory (such as a const variable or a literal string).<br>
     *          If this parameter is a constant string, the
function may cause
     *          an access violation.<br>
     *          The lpCommandLine parameter can be NULL, and the function uses
     *          the string pointed to by lpApplicationNameas the command line.
     *          <br>
     *          <br>
     *          If both lpApplicationName and lpCommandLine are non-NULL,
     *          *lpApplicationName specifies the module to execute, and
     *          *lpCommandLine specifies the command line.<br>
     *          The new process can use GetCommandLine to retrieve the entire
     *          command line.<br>
     *          Console processes written in C can use the argc and argv
     *          arguments to parse the command line. <br>
     *          Because argv[0] is the module name, C programmers typically
     *          repeat the module name as the first token in the command line.
     *          <br>
     *          If lpApplicationName is NULL, the first white space-delimited

     *          token of the command line specifies the module name.<br>
     *          If you are using a long file name that contains a space, use
     *          quoted strings to indicate where the file name ends and the
     *          arguments begin (see the explanation for the lpApplicationName
     *          parameter). If the file name does not contain an extension,
     *          .exe is appended. Therefore, if the file name extension is
     *          .com, this parameter must include the .com extension. If the
     *          file name ends in a period with no extension, or if the file
     *          name contains a path, .exe is not appended. If the file name
     *          does not contain a directory path, the system searches for the
     *          executable file in the following sequence:<br>
     *          <br>
     *          1. The directory from which the application loaded.<br>
```

```
   *          2. The current directory for the parent
process.<br>
   *          3. The 32-bit Windows system directory. Use the
   *          GetSystemDirectory function to get the path of this directory.
   *          <br>
   *          4. The 16-bit Windows system directory. There is no function
   *          that obtains the path of this directory, but it is searched.
   *          <br>
   *          5. The Windows directory. Use the GetWindowsDirectory function
   *          to get the path of this directory.<br>
   *          6. The directories that are listed in the PATH environment
   *          variable. Note that this function does not search the
   *          per-application path specified by the App Paths registry key.
   *          To include this per-application path in the search sequence,
   *          use the ShellExecute function.<br>
   *          <br>
   *          The system adds a null character to the command line string to
   *          separate the
file name from the arguments. This divides the
   *          original string into two strings for internal processing.<br>
   * @param dwCreationFlags
   *          The flags that control how the process is created. <br>
   *          The CREATE_DEFAULT_ERROR_MODE, CREATE_NEW_CONSOLE, and
   *          CREATE_NEW_PROCESS_GROUP flags are enabled by default. <br>
   *          Even if you do not set the flag, the system functions as if it
   *          were set. You can specify additional flags as noted.<br>
   *          <br>
   *          CREATE_DEFAULT_ERROR_MODE: 0x04000000<br>
   *          The new process does not inherit the error mode of the calling
   *          process. <br>
   *          Instead, CreateProcessWithLogonW gives the new process the
   *          current default error mode. <br>
   *          An application sets the current default error mode by calling
   *          SetErrorMode. This flag is enabled by
default.<br>
   *          <br>
   *          CREATE_NEW_CONSOLE: 0x00000010<br>
   *          The new process has a new console, instead of inheriting the
   *          parent's console. This flag cannot be used with the
   *          DETACHED_PROCESS flag.<br>
   *          This flag is enabled by default.<br>
   *          <br>
   *          CREATE_NEW_PROCESS_GROUP: 0x00000200<br>
   *          The new process is the root process of a new process group.
   *          <br>
   *          The process group includes all processes that are descendants
   *          of this root process.<br>
   *          The process identifier of the new process group is the same as
```

```
     *          the process identifier, which is returned in the lpProcessInfo
     *          parameter.<br>
     *          Process groups are used by the GenerateConsoleCtrlEvent
     *          function to enable sending a CTRL+C or CTRL+BREAK signal to a
     *
          group of console processes.<br>
     *          This flag is enabled by default.<br>
     *          <br>
     *          CREATE_SEPARATE_WOW_VDM: 0x00000800<br>
     *          This flag is only valid starting a 16-bit Windows-based
     *          application.<br>
     *          If set, the new process runs in a private Virtual DOS Machine
     *          (VDM).<br>
     *          By default, all 16-bit Windows-based applications run in a
     *          single, shared VDM.<br>
     *          The advantage of running separately is that a crash only
     *          terminates the single VDM; any other programs running in
     *          distinct VDMs continue to function normally.<br>
     *          Also, 16-bit Windows-based applications that run in separate
     *          VDMs have separate input queues, which means that if one
     *          application stops responding momentarily, applications in
     *          separate VDMs continue
    to receive input. <br>
     *          CREATE_SUSPENDED: 0x00000004<br>
     *          The primary thread of the new process is created in a
     *          suspended state, and does not run until the ResumeThread
     *          function is called.<br>
     *          <br>
     *          CREATE_UNICODE_ENVIRONMENT: 0x00000400<br>
     *          Indicates the format of the lpEnvironment parameter.<br>
     *          If this flag is set, the environment block pointed to by
     *          lpEnvironment uses Unicode characters. <br>
     *          Otherwise, the environment block uses ANSI characters. <br>
     *          EXTENDED_STARTUPINFO_PRESENT: 0x00080000<br>
     *          The process is created with extended startup information; the
     *          lpStartupInfo parameter specifies a STARTUPINFOEX structure.
     *          <br>
     *          Windows Server 2003 and Windows XP: This value is not
     *          supported.<br>
     * @param
    lpEnvironment
     *          [in, optional]<br>
     *          A pointer to an environment block for the new process.<br>
     *          If this parameter is NULL, the new process uses an environment
     *          created from the profile of the user specified by lpUsername.
     *          An environment block consists of a null-terminated block of
     *          null-terminated strings.<br>
     *          Each string is in the following form:<br>
```

```
     *          name=value<br>
     *          Because the equal sign (=) is used as a separator, it must not
     *          be used in the name of an environment variable.<br>
     *          An environment block can contain Unicode or ANSI characters.
     *          <br>
     *          If the environment block pointed to by lpEnvironment contains
     *          Unicode characters, ensure that dwCreationFlags includes
     *          CREATE_UNICODE_ENVIRONMENT.<br>
     *          If this parameter
    is NULL and the environment block of the
     *          parent process contains Unicode characters, you must also
     *          ensure that dwCreationFlags includes
     *          CREATE_UNICODE_ENVIRONMENT.<br>
     *          An ANSI environment block is terminated by two 0 (zero) bytes:
     *          one for the last string and one more to terminate the block.
     *          <br>
     *          A Unicode environment block is terminated by four zero bytes:
     *          two for the last string and two more to terminate the block.
     *          <br>
     *          To retrieve a copy of the environment block for a specific
     *          user, use the CreateEnvironmentBlock function.<br>
     * @param lpCurrentDirectory
     *          [in, optional]<br>
     *          The full path to the current directory for the process.<br>
     *          The string can also specify a UNC path.<br>
     *          If this parameter is NULL, the new
    process has the same
     *          current drive and directory as the calling process.<br>
     *          This feature is provided primarily for shells that need to
     *          start an application, and specify its initial drive and
     *          working directory.<br>
     * @param lpStartupInfo
     *          [in]<br>
     *          A pointer to a STARTUPINFO or STARTUPINFOEX structure. <br>
     *          The application must add permission for the specified user
     *          account to the specified window station and desktop, even for
     *          WinSta0\Default.<br>
     *          If the lpDesktop member is NULL or an empty string, the new
     *          process inherits the desktop and window station of its parent
     *          process.<br>
     *          The application must add permission for the specified user
     *          account to the inherited window station and desktop.<br>
     *          Windows XP: CreateProcessWithLogonW
    adds permission for the
     *          specified user account to the inherited window station and
     *          desktop.<br>
     *          Handles in STARTUPINFO or STARTUPINFOEX must be closed with
     *          CloseHandle when they are no longer needed.<br>
```

```
   *          Important If the dwFlags member of the STARTUPINFO structure
   *          specifies STARTF_USESTDHANDLES, the standard handle fields are
   *          copied unchanged to the child process without validation.<br>
   *          The caller is responsible for ensuring that these fields
   *          contain valid handle values. Incorrect values can cause the
   *          child process to misbehave or crash.<br>
   *          Use the Application Verifier runtime verification tool to
   *          detect invalid handles.
   * @param lpProcessInfo
   *          [out]<br>
   *          A pointer to a PROCESS_INFORMATION structure that receives
   *
         identification information for the new process, including a
   *          handle to the process.<br>
   *          Handles in PROCESS_INFORMATION must be closed with the
   *          CloseHandle function when they are not needed.<br>
   * @return If the function succeeds, the return value is nonzero.<br>
   *        If the function fails, the return value is 0 (zero).<br>
   *        To get extended error information, call GetLastError.<br>
   *        Note that the function returns before the process has finished
   *        initialization.<br>
   *        If a required DLL cannot be located or fails to initialize, the
   *        process is terminated.<br>
   *        To get the termination status of a process, call
   *        GetExitCodeProcess.
   * @see <a href="http://msdn.microsoft.com/en-
us/library/windows/desktop/ms682431%28v=vs.85%29.aspx">MSDN</a>
   */
```

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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/OpenGL32.java
*
/jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/Rasapi32.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/GL.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/OpenGL32Util.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/wince/CoreDLL.java

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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/unix/X11.java
*
 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/FileMonitor.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/FileUtils.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/NTStatus.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/dnd/DropTargetPainter.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/GDI32.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/WinNT.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/dnd/DropHandler.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/Wincon.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/dnd/GhostedDragImage.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/W32FileMonitor.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/LMErr.java
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*
/jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbFunctionDispId.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/COMInvoker.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/TypeLibUtil.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbCmdlineArgs.java
* /jna-platform-5-17-0-sources-
jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbParameterNotFoundException.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyGet.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbDispInterface.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/TypeInfoUtil.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyPut.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/COMUtils.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbAbstractMethod.java
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/jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbCoClass.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/TlbImp.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbConst.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbBase.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbFunctionStub.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbFunctionVTable.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbEnum.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/tlb/imp/TlbPropertyGetStub.java
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/Winnetwk.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/AccCtrl.java

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/jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/Mpr.java
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/EnumConverter.java
*
 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/Dxva2.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/LowLevelMonitorConfigurationAPI.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/FlagEnum.java
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/ITypeInfo.java
*
 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/Unknown.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/RecordInfo.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/Dispatch.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/COMBindingBaseObject.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/TypeLib.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/COMEarlyBindingObject.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/TypeComp.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/ITypeLib.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/COMLateBindingObject.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IDispatch.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/TypeInfo.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IUnknown.java
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 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IRecordInfo.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/COMException.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/ITypeComp.java
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/VersionUtil.java
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*
 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/EnumMoniker.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/IComEventCallbackCookie.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IRunningObjectTable.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/ComEventCallbackCookie.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/ComThread.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IPersist.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/IComEventCallbackListener.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/IUnknown.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/DispatchVTable.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/Moniker.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComProperty.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/DispatchListener.java
*
 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/UnknownVTable.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/ObjectFactory.java

* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComInterface.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IPersistStream.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/IRawDispatchHandle.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/ProxyObject.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/Convert.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/CallbackProxy.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/annotation/ComEventCallback.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/EnumMoniker.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/IComEnum.java
*
 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/ConnectionPointContainer.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/AbstractComEventCallbackListener.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IUnknownCallback.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/ConnectionPoint.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/IRunningObjectTable.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IMoniker.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IDispatchCallback.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/IConnectionPointContainer.java
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 /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IConnectionPoint.java
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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/RunningObjectTable.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/UnknownListener.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/IConnectionPoint.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/util/RunningObjectTable.java
* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/win32/COM/IStream.java
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/**
   * Sets or retrieves power information.
   * <p>
   * Changes made to the current system power policy using
   * {@link #CallNtPowerInformation} are immediate, but they are not
   * persistent;
 that is, the changes are not stored as part of a power
   * scheme. Any changes to system power policy made with
   * {@link #CallNtPowerInformation} may be overwritten by changes to a
   * policy scheme made by the user in the Power Options control panel
   * program, or by subsequent calls to {@code WritePwrScheme},
   * {@code SetActivePwrScheme}, or other power scheme functions.

```
     *
     * @param informationLevel
     *          The information level requested. This value indicates the
     *          specific power information to be set or retrieved. This
     *          parameter must be one of the following
     *          {@link POWER_INFORMATION_LEVEL} enumeration type values:
     *          {@link POWER_INFORMATION_LEVEL#LastSleepTime},
     *          {@link POWER_INFORMATION_LEVEL#LastWakeTime},
     *          {@link POWER_INFORMATION_LEVEL#ProcessorInformation},
     *          {@link POWER_INFORMATION_LEVEL#SystemBatteryState},
     *
        {@link POWER_INFORMATION_LEVEL#SystemExecutionState},
     *          {@link POWER_INFORMATION_LEVEL#SystemPowerCapabilities},
     *          {@link POWER_INFORMATION_LEVEL#SystemPowerInformation},
     *          {@link POWER_INFORMATION_LEVEL#SystemPowerPolicyAc},
     *          {@link POWER_INFORMATION_LEVEL#SystemPowerPolicyCurrent},
     *          {@link POWER_INFORMATION_LEVEL#SystemPowerPolicyDc}, or
     *          {@link POWER_INFORMATION_LEVEL#SystemReserveHiberFile}.
     * @param lpInputBuffer
     *          A pointer to an optional input buffer. The data type of this
     *          buffer depends on the information level requested in the
     *          {@code informationLevel} parameter.
     * @param nInputBufferSize
     *          The size of the input buffer, in bytes.
     * @param lpOutputBuffer
     *          A pointer to an optional output buffer. The data type of this
     *          buffer depends on the information level
    requested in the
     *          {@code informationLevel} parameter. If the buffer is too small
     *          to contain the information, the function returns
     *          {@link NTStatus#STATUS_BUFFER_TOO_SMALL}.
     * @param nOutputBufferSize
     *          The size of the output buffer, in bytes. Depending on the
     *          information level requested, this may be a variably sized
     *          buffer.
     * @return If the function succeeds, the return value is
     *        {@link NTStatus#STATUS_SUCCESS}. If the function fails, the
     *        return value can be one the following status codes:
     *        {@link NTStatus#STATUS_BUFFER_TOO_SMALL} if the output buffer is
     *        of insufficient size to contain the data to be returned.
     *        {@link NTStatus#STATUS_ACCESS_DENIED} if the caller had
     *        insufficient access rights to perform the requested action.
     */
```

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* /jna-platform-5-17-0-sources-jar/com/sun/jna/platform/mac/package.html
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1.105 oshi-core 6.8.2

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1.106 langgraph 0.4.8

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This error is raised when license verification fails while attempting to start a self-hosted LangGraph Platform server. This error is specific to the LangGraph Platform and is not related to the open source libraries.

When This Occurs

This error occurs when running a self-hosted deployment of LangGraph Platform without a valid enterprise license or API key.

Troubleshooting

Confirm deployment type

First, confirm the desired mode of deployment.

For Local Development

If you're just developing locally, you can use the lightweight in-memory server by running `langgraph dev`.
See the [local server](../../tutorials/langgraph-platform/local-server.md) docs for more information.

For Managed LangGraph Platform

If you would like a fast managed environment, consider the [Cloud SaaS](../../concepts/langgraph_cloud.md) deployment option. This requires no additional license key.

For Standalone Container (Lite)

If your deployment is unlikely to see
more than 1 million node executions per year and don't need Crons and other enterprise features, consider the [Standalone Container](../../concepts/deployment_options.md) deployment option.

You can deploy with Standalone Container by setting a valid `LANGSMITH_API_KEY` in your environment (e.g., in the `.env` file referenced by `langgraph.json`) and building a Docker image. The API key must be associated with an account on a **Plus** plan or greater.

For Standalone Container (Enterprise)

For full self-hosting, set the `LANGGRAPH_CLOUD_LICENSE_KEY` environment variable. If you are interested in an enterprise license key, please contact the LangChain support team.

For more information on deployment options and their features, see the [Deployment
Options](../../concepts/deployment_options.md) documentation.

Confirm credentials

If you have confirmed that you would like to self-host LangGraph Platform, please verify your credentials.

For Standalone Container (Lite)

1.
Confirm that you have provided a working `LANGSMITH_API_KEY` environment variable in your deployment environment or `.env` file
2. Confirm the provided API key is associated with an account on a **Plus** or **Enterprise** plan (or equivalent)

For Standalone Container (Enterprise)

1. Confirm that you have provided a working `LANGGRAPH_CLOUD_LICENSE_KEY` environment variable in your deployment environment or `.env` file
2. Confirm the key is still valid and has not surpassed its expiration date
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1.110 transformers 4.47.1

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