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1.238 [go.opentelemetry.io/contrib/instrumentation/go.mongodb.org/mongo-driver/mongo/otelmongo](https://www.npmjs.com/package/go.opentelemetry.io/contrib/instrumentation/go.mongodb.org/mongo-driver/mongo/otelmongo) v0.29.0

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1.239 [io-grpc-grpc-core](https://www.npmjs.com/package/io-grpc-grpc-core) 1.75.0

1.239.1 Available under license

1.1 javax-inject 1

1.1.1 Available under license :

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

```
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Found in path(s):

* /javax-inject-1-sources-jar/javax/inject/Singleton.java
* /javax-inject-1-sources-jar/javax/inject/Inject.java
* /javax-inject-1-sources-jar/javax/inject/Scope.java
* /javax-inject-1-sources-jar/javax/inject/Qualifier.java
* /javax-inject-1-sources-jar/javax/inject/Named.java
* /javax-inject-1-sources-jar/javax/inject/Provider.java
*
/javax-inject-1-sources-jar/javax/inject/package-info.java

1.2 findbugs-annotations 2.0.1

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1.3 findbugs-jsr305 1.3.9

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```
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Found in path(s):

```
 * /jsr305-1-3-9-jar/javax/annotation/concurrent/GuardedBy.java  
 * /jsr305-1-3-9-jar/javax/annotation/concurrent/Immutable.java  
 * /jsr305-1-3-9-jar/javax/annotation/concurrent/NotThreadSafe.java
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1.4 apache-common-codec 1.11

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1.5 opentracing-api 0.33.0

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* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/ScopeManager.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/Format.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/BinaryAdapters.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/tag/BooleanTag.java

*

/opentracing-api-0-33-0-sources-1-jar/io/opentracing/tag/Tags.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/BinaryInject.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/TextMapExtractAdapter.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/Tracer.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/TextMap.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/log/Fields.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/TextMapInjectAdapter.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/SpanContext.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/tag/Tag.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/Span.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/Binary.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/TextMapExtract.java

* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/tag/IntOrStringTag.java

*

```

/opentracing-api-0-33-0-sources-1-jar/io/opentracing/tag/StringTag.java
* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/TextMapInject.java
* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/References.java
* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/tag/AbstractTag.java
* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/Scope.java
* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/BinaryExtract.java
* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/tag/IntTag.java
* /opentracing-api-0-33-0-sources-1-jar/io/opentracing/propagation/TextMapAdapter.java

```

1.6 joni 2.1.5.3

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```

```

* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/xml/SAXCodeAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/xml/SAXAnnotationAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/xml/ASMContentHandler.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/xml/SAXClassAdapter.java
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*/
/**
* Constructs a new {@link ClassNode}. <i>Subclasses must not use this
* constructor</i>. Instead, they must use the {@link #ClassNode(int)}
* version.
*
* @throws IllegalStateException
*         If a subclass calls this constructor.
*/

```

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*/

/**

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

* constructor</i>. Instead, they must use the {@link #Textifier(int)}

* version.

*

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

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- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/optimizer/Shrinker.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/tree/analysis/BasicVerifier.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/util/Printer.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/util/TraceMethodVisitor.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/tree/FieldNode.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/signature/SignatureVisitor.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/tree/analysis/Value.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/util/CheckClassAdapter.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/optimizer/ClassConstantsCollector.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/tree/analysis/BasicValue.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/ClassReader.java
- *

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/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/InnerClassNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/SimpleRemapper.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/analysis/Interpreter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/LdcInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/analysis/BasicInterpreter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/util/CheckSignatureAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/InstructionAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/Method.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/VarInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/analysis/SmallSet.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Opcodes.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/JarOptimizer.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/Remapper.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/analysis/Analyzer.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/FieldVisitor.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Handler.java
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* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/AdviceAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/FieldConstantsCollector.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/NameMapping.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/FieldWriter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/JumpInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/MethodConstantsCollector.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Type.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/AnnotationWriter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/SerialVersionUIDAdder.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/AnnotationNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/analysis/SimpleVerifier.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/AnnotationVisitor.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/RemappingMethodAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/AbstractInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/TypeInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/ClassWriter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/util/CheckFieldAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/TableSwitchInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/TryCatchBlockNode.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/InsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/CodeSizeEvaluator.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/analysis/SourceValue.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/MethodOptimizer.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/analysis/SourceInterpreter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/AnnotationConstantsCollector.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Handle.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/analysis/Frame.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/util/CheckMethodAdapter.java

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* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/IncInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/util/ASMifier.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/StaticInitMerger.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/RemappingAnnotationAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Context.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/RemappingClassAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/LineNumberNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/MethodWriter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/MethodVisitor.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/FieldInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/RemappingFieldAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/TableSwitchGenerator.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/analysis/AnalyzerException.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/Constant.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/util/TraceAnnotationVisitor.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/MethodNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/signature/SignatureReader.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/RemappingSignatureAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/LabelNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Frame.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/ParameterNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Label.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Item.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Attribute.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/IntInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/util/TraceClassVisitor.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/TypeAnnotationNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/FrameNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/LookupSwitchInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/util/CheckAnnotationAdapter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/commons/LocalVariablesSorter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/signature/SignatureWriter.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/ClassVisitor.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/Edge.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/util/TraceFieldVisitor.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/ConstantPool.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/ByteVector.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/LocalVariableNode.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/MethodInsnNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/InsnList.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/tree/MultiANewArrayInsnNode.java
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```

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- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/unicode/UnicodeProperties.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/unicode/FixedWidthUnicodeEncoding.java

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*/

/**

* Creates a new {@link GeneratorAdapter}. *<i>*Subclasses must not use this
 * constructor*</i>*. Instead, they must use the
 * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
 * version.

*

* @param mv

* the

method visitor to which this adapter delegates calls.

* @param access

* the method's access flags (see {@link Opcodes}).

* @param name

* the method's name.

* @param desc

* the method's descriptor (see {@link Type Type}).

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

Found in path(s):

* /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/commons/GeneratorAdapter.java

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*/

/**

* Creates a new JSRInliner. *<i>Subclasses must not use this*
* constructor*</i>*. Instead, they must use the
* {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
* version.

*

* @param mv

*

the `MethodVisitor` to send the resulting inlined

* method code to (use `null` for none).

* @param access

* the method's access flags (see {@link Opcodes}). This

* parameter also indicates if the method is synthetic and/or

* deprecated.

* @param name

* the method's name.

* @param desc

* the method's descriptor (see {@link Type}).

* @param signature

* the method's signature. May be `null`.

* @param exceptions

* the internal names of the method's exception classes (see

* {@link Type#getName() getName}). May be

* `null`.

* @throws IllegalStateException

* If a subclass calls this constructor.

*/

Found in path(s):

* /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/commons/JSRInlinerAdapter.java

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*/

/**

* Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
 * not use this constructor</i>. Instead, they must use the
 * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
 * version.
 *

* @param typeRef
 * a reference to the annotated type. See {@link TypeReference}.
 * @param typePath
 * the path to the annotated type argument, wildcard bound, array
 * element type, or static inner type within 'typeRef'. May be
 * <tt>null</tt> if the annotation targets 'typeRef' as a whole.
 * @param start
 * the first instructions corresponding to the continuous ranges
 * that make the scope of this local variable (inclusive).
 * @param end
 * the last instructions corresponding to the continuous ranges
 * that make the scope of this local variable (exclusive). This
 * array must have the same size as the 'start' array.
 * @param index
 * the local variable's index in each range. This array must have
 * the same size as the 'start' array.
 * @param desc
 * the class descriptor of

the annotation class.

*/

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* /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/tree/LocalVariableAnnotationNode.java

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* /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/tree/analysis/package.html
* /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/package.html
* /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/signature/package.html
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 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/CodeRange.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/KOI8Encoding.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/AbstractEncoding.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/util/ArrayReader.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/GenericTranscoder.java
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 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/TranscodeTableSupport.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/CaseFoldMapEncoding.java
 * /joni-2-1-5-3-sources-jar/io/airlift/joni/ScannerSupport.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/EucEncoding.java
 *
 /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_2Encoding.java
 * /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/NodeStatus.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/EUCJPEncoding.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/CanBeTrailTableEncoding.java
 * /joni-2-1-5-3-sources-jar/io/airlift/joni/NameEntry.java
 * /joni-2-1-5-3-sources-jar/io/airlift/joni/MinMaxLen.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_10Encoding.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Stateless_iso2022jp_to_eucjp_Transcoder.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/util/ObjHash.java
 * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_11Encoding.java
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- * /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/StackType.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/To_UTF_16BE_Transcoder.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/exception/ErrorMessage.java
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- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/unicode/UnicodeEncoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ArrayCompiler.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/USASCIIEncoding.java
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- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/From_UTF_16BE_Transcoder.java
- *
- /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_1Encoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/EConv.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Eucjp2sjis_Transcoder.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/util/IntArrayHash.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/CaseFoldCodeItem.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/Big5HKSCSEncoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/Buffer.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/AsciiCompatibility.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_16Encoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/CCVALTYPE.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_15Encoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/From_UTF_32_Transcoder.java
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- /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_13Encoding.java
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- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/EncloseNode.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/From_UTF_16LE_Transcoder.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/CTypeNode.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/exception/JOniException.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/UTF32LEEncoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/Region.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/util/Hash.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_5Encoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/WarnCallback.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/NodeType.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/CaptureTreeNode.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/To_GB18030_Transcoder.java
- *

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/joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_14Encoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/UnsetAddrList.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/OptExactInfo.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/MetaChar.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/MatcherFactory.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/Lexer.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Escape_xml_attr_quote_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/IntHolder.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/Warnings.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/ConsAltNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/NonStrictEUCJPEncoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/From_GB18030_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/StateNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Eucjp_to_stateless_iso2022jp_Transcoder.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/Option.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_9Encoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/Matcher.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/AnchorType.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/Token.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/Node.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/KOI8REncoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/StringType.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/exception/CharacterPropertyException.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/Ptr.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/CallNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/EConvResult.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/SingleByteEncoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/EncodingList.java
*
/joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_4Encoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/Config.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/Reduce.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/ObjPtr.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Universal_newline_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/BaseUTF8Encoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/exception/TranscoderException.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/BaseSJISEncoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/QuantifierNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_3Encoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/OptEnvironment.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/StringNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Cp50221_encoder_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Cp50221_decoder_Transcoder.java
*
/joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/UTF8Encoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/NodeOptInfo.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/BIG5Encoding.java

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- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/EConvFlags.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ASCIIEncoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_8Encoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/Transcoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/util/BytesHash.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/exception/ValueException.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/Syntax.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/ascii/AsciiTables.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/exception/InternalException.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/From_UTF_32LE_Transcoder.java
- *
- /joni-2-1-5-3-sources-jar/io/airlift/jcodings/exception/ErrorMessage.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/AnyCharNode.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/ISOEncoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/From_UTF_16_Transcoder.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/SearchAlgorithm.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/EUCTWEncoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/exception/JCodingsException.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/NativeMachine.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/UTF32BEEncoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/exception/IllegalCharacterException.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/To_UTF_16_Transcoder.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/To_UTF_32LE_Transcoder.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ByteCodePrinter.java
- *
- /joni-2-1-5-3-sources-jar/io/airlift/joni/BitSet.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/Compiler.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/OptMapInfo.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/constants/CharacterType.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ApplyCaseFold.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/TargetInfo.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/OPSize.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Iso2022jp_kddi_encoder_Transcoder.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/Config.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/SJISEncoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ApplyCaseFoldArg.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/UTF16BEEncoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Iso2022jp_encoder_Transcoder.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/util/CaseInsensitiveBytesHash.java
- *
- /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/EncloseType.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/OptAnchorInfo.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ScanEnvironment.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/BackRefNode.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/To_UTF_32BE_Transcoder.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/ByteCodeMachine.java
- * /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/NonStrictUTF8Encoding.java
- * /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/Traverse.java

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* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/exception/InternalException.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/SyntaxProperties.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Cp50220_encoder_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/Analyser.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/BitStatus.java
*
/joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/EmacsMuleEncoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/CP949Encoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/GB2312Encoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/ast/AnchorNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/CCSTATE.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/Arguments.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Sjis2eucjp_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/KOI8UEncoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/Big5UAOEncoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/OPCode.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/Cp50220_decoder_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/EUCKREncoding.java
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/ast/CClassNode.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/ISO8859_7Encoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/From_UTF_32BE_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/To_UTF_16LE_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/transcode/specific/To_UTF_32_Transcoder.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/AsmConstants.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/EncodingDB.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/StackMachine.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/constants/StackPopLevel.java
* /joni-2-1-5-3-sources-jar/io/airlift/jcodings/specific/BaseEUCJPEncoding.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/StackEntry.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/Regex.java
* /joni-2-1-5-3-sources-jar/io/airlift/joni/Parser.java

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Found in path(s):

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* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/shrink-annotations.properties
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/shrink-frames.properties
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/shrink.properties
*
/joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/shrink-writer.properties
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/shrink-resize.properties
* /joni-2-1-5-3-sources-jar/io/airlift/joni/$internal/asm/optimizer/shrink-signatures.properties
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```

```

*/

```

```

/**

```

```

* Creates a new {@link AnalyzerAdapter}. Subclasses must not use this
* constructor. Instead, they must use the
* {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
* version.
*
* @param owner
*

```

```

    the owner's class name.
* @param access
*     the method's access flags (see {@link Opcodes}).
* @param name
*     the method's name.
* @param desc
*     the method's descriptor (see {@link Type Type}).
* @param mv
*     the method visitor to which this adapter delegates calls. May
*     be <tt>null</tt>.
* @throws IllegalStateException
*     If a subclass calls this constructor.
*/

```

Found in path(s):

* /joni-2-1-5-3-sources-jar/io/airlift/joni/\$internal/asm/commons/AnalyzerAdapter.java

1.7 errors

614d223910a179a466c1767a985424175c39b4

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1.8 junit 4.13.1

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1.9 antlr-runtime 4.9.2

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1.10 query-string 6.14.1

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1.11 graphql-tag 2.12.6

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BSON library for Go

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lib/erl/src/Makefile.am

Please see doc/otp-base-license.txt for the full terms of this license.

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4
components:

```
# Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
# Copying and distribution of this file, with or without
# modification, are permitted in any medium without royalty provided
# the copyright notice and this notice are preserved.
```

For the lib/nodejs/lib/thrift/json_parse.js:

```
/*
  json_parse.js
  2015-05-02
  Public Domain.
  NO WARRANTY EXPRESSED OR IMPLIED. USE AT YOUR OWN RISK.

  */
(By Douglas Crockford <douglas@crockford.com>)
```

For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
 * This code is Free Software. It may be copied freely, in original or
 * modified form, subject only to the restrictions that (1) the author is
 * relieved from all responsibilities for any use for any purpose, and (2)
 * this copyright notice must
   be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
 */
```

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

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
//
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//
////////////////////////////////////
```

Codegen template

in t_html_generator.h

```
* Bootstrap v2.0.3
*
* Copyright 2012 Twitter, Inc
* Licensed under the Apache License v2.0
* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

For t_cl_generator.cc

```
* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook
```

1.14 cors v1.8.2

1.14.1 Available under license :

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1.15 rsa 4.9

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1.16 react-router-dom 5.3.4

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compiler/cpp/src/thrift/generate/t_java_generator.cc
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compiler/cpp/src/thrift/generate/t_st_generator.cc
compiler/cpp/src/thrift/generate/t_xsd_generator.cc
compiler/cpp/src/thrift/main.cc
compiler/cpp/src/thrift/parse/t_field.h
compiler/cpp/src/thrift/parse/t_program.h
compiler/cpp/src/thrift/platform.h
compiler/cpp/src/thrift/thriftl.ll

```

compiler/cpp/src/thrift/thrift.yy
lib/netstd/Thrift/Protocol/TBinaryProtocol.cs
lib/netstd/Thrift/Protocol/Entities/TField.cs
lib/netstd/Thrift/Protocol/Entities/TList.cs
lib/netstd/Thrift/Protocol/Entities/TMap.cs
lib/netstd/Thrift/Protocol/Entities/TMessage.cs
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lib/netstd/Thrift/Protocol/TProtocolException.cs
lib/netstd/Thrift/Protocol/TProtocolFactory.cs
lib/netstd/Thrift/Protocol/Utilities/TProtocolUtil.cs
lib/netstd/Thrift/Protocol/Entities/TSet.cs
lib/netstd/Thrift/Protocol/Entities/TStruct.cs
lib/netstd/Thrift/Protocol/Entities/TType.cs
lib/netstd/Thrift/Server/TServer.cs
lib/netstd/Thrift/Server/TSimpleAsyncServer.cs
lib/netstd/Thrift/Server/TThreadPoolAsyncServer.cs
lib/netstd/Thrift/TApplicationException.cs
lib/netstd/Thrift/Thrift.csproj
lib/netstd/Thrift.sln
lib/netstd/Thrift/Transport/Server/TServerSocketTransport.cs
lib/netstd/Thrift/Transport/Server/TServerTransport.cs
lib/netstd/Thrift/Transport/Client/TSocketTransport.cs
lib/netstd/Thrift/Transport/Client/TStreamTransport.cs
lib/netstd/Thrift/Transport/TTransport.cs
lib/netstd/Thrift/Transport/TTransportException.cs
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lib/st/README.md
lib/st/thrift.st
lib/cpp/test/OptionalRequiredTest.cpp
test/OptionalRequiredTest.thrift
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```

For the aclocal/ax_boost_base.m4 and contrib/fb303/aclocal/ax_boost_base.m4 components:

```

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```

/*
    json_parse.js
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*/
(By Douglas Crockford <douglas@crockford.com>)

-----
For lib/cpp/src/thrift/windows/SocketPair.cpp

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*/

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

// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
////////////////////////////////////
```

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in t_html_generator.h

* Bootstrap v2.0.3

*

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*

* Designed and built with all the love in the world @twitter by @mdo and @fat.

For t_cl_generator.cc

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1.19 github.com/golang-jwt/jwt/v4 v4.5.0

1.19.1 Available under license :

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1.20 okhttp 4.10.0

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1.21 @splunk/time-range-utils 2.6.1

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It was originally written by Tatu Saloranta (tatu.saloranta@iki.fi), and has
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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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1.25 apache-thrift v0.16.0

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Any executables

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lib/erl/src/Makefile.am

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For the lib/nodejs/lib/thrift/json_parse.js:

```
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  */
(By Douglas Crockford <douglas@crockford.com>)
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For lib/cpp/src/thrift/windows/SocketPair.cpp

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

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
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in t_html_generator.h

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1.26 okio 3.4.0

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Found in path(s):

* /okio-3-4-0-sources-jar/jvmTest/okio/LargeStreamsTest.java

* /okio-3-4-0-sources-jar/jvmMain/okio/HashingSource.kt

```

* /okio-3-4-0-sources-jar/commonMain/okio/Options.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/HashingSink.kt
* /okio-3-4-0-sources-jar/commonTest/okio/HashingSourceTest.kt
* /okio-3-4-0-sources-jar/commonTest/okio/HashingSinkTest.kt
*
/okio-3-4-0-sources-jar/jvmTest/okio/PipeTest.java
* /okio-3-4-0-sources-jar/jvmMain/okio/Pipe.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/WaitUntilNotifiedTest.java
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* /okio-3-4-0-sources-jar/jvmMain/okio/CipherSink.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/CipherSourceTest.kt
* /okio-3-4-0-sources-jar/hashFunctions/okio/internal/HashFunction.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/CipherAlgorithm.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/CipherSinkTest.kt
*
/okio-3-4-0-sources-jar/jvmMain/okio/CipherSource.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/internal/HashFunction.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/CipherFactory.kt
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* /okio-3-4-0-sources-jar/jvmMain/okio/SegmentedByteString.kt

* /okio-3-4-0-sources-jar/commonMain/okio/SegmentedByteString.kt

* /okio-3-4-0-sources-jar/appleMain/okio/SegmentedByteString.kt

* /okio-3-4-0-sources-jar/jvmMain/okio/ForwardingTimeout.kt

* /okio-3-4-0-sources-jar/jvmTest/okio/SegmentSharingTest.kt

*

/okio-3-4-0-sources-jar/nonAppleMain/okio/SegmentedByteString.kt

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* /okio-3-4-0-sources-jar/jvmTest/okio/JimfsOkioRoundTripTest.kt

* /okio-3-4-0-sources-jar/jvmMain/okio/NioFileSystemWrappingFileSystem.kt

* /okio-3-4-0-sources-jar/jvmMain/okio/NioFileSystemFileHandle.kt

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* /okio-3-4-0-sources-jar/commonTest/okio/ByteStringTest.kt

```

* /okio-3-4-0-sources-jar/commonMain/okio/Util.kt
* /okio-3-4-0-sources-jar/commonMain/okio/ByteString.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/-JvmPlatform.kt
* /okio-3-4-0-sources-jar/commonMain/okio/internal/-Utf8.kt
* /okio-3-4-0-sources-jar/commonMain/okio/CommonPlatform.kt
*
/okio-3-4-0-sources-jar/nonAppleMain/okio/ByteString.kt
* /okio-3-4-0-sources-jar/nonJvmMain/okio/NonJvmPlatform.kt
* /okio-3-4-0-sources-jar/commonMain/okio/internal/ByteString.kt
* /okio-3-4-0-sources-jar/appleMain/okio/ByteString.kt
* /okio-3-4-0-sources-jar/commonTest/okio/ByteStringFactory.kt
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* /okio-3-4-0-sources-jar/jvmMain/okio/Timeout.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/SocketTimeoutTest.java
* /okio-3-4-0-sources-jar/commonTest/okio/CommonBufferTest.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/OkioTest.java
* /okio-3-4-0-sources-jar/jvmMain/okio/RealBufferedSource.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/GzipSinkTest.java
*
/okio-3-4-0-sources-jar/commonMain/okio/Segment.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/SegmentPool.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/Utf8Test.java
* /okio-3-4-0-sources-jar/jvmMain/okio/DeflaterSink.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/GzipSourceTest.java
* /okio-3-4-0-sources-jar/jvmMain/okio/RealBufferedSink.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/InflaterSourceTest.java
* /okio-3-4-0-sources-jar/nonJvmMain/okio/RealBufferedSource.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/BufferedSourceJavaTest.java
* /okio-3-4-0-sources-jar/jvmMain/okio/InflaterSource.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/AsyncTimeoutTest.java

```

* /okio-3-4-0-sources-jar/nonJvmMain/okio/ForwardingSource.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/Buffer.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/BufferedSource.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/AsyncTimeout.kt
* /okio-3-4-0-sources-jar/commonMain/okio/ForwardingSource.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/ForwardingSink.kt
*

/okio-3-4-0-sources-jar/commonMain/okio/SegmentPool.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/BufferedSourceTest.java
* /okio-3-4-0-sources-jar/commonTest/okio/MockSink.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/ForwardingSource.kt
* /okio-3-4-0-sources-jar/nonJvmMain/okio/SegmentPool.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/BufferedSinkJavaTest.java
* /okio-3-4-0-sources-jar/jvmMain/okio/GzipSource.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/GzipSink.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/TestUtil.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/ReadUtf8LineTest.java
* /okio-3-4-0-sources-jar/jvmMain/okio/Sink.kt
* /okio-3-4-0-sources-jar/jvmMain/okio/BufferedSink.kt
* /okio-3-4-0-sources-jar/jvmTest/okio/DeflaterSinkTest.java
* /okio-3-4-0-sources-jar/jvmTest/okio/BufferTest.java
* /okio-3-4-0-sources-jar/jvmMain/okio/JvmOkio.kt
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 * /okio-3-4-0-sources-jar/commonTest/okio/HashingTest.kt
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- * /okio-3-4-0-sources-jar/jvmMain/okio/ZipFileSystem.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/internal/ZipFiles.kt
- *

/okio-3-4-0-sources-jar/jvmMain/okio/internal/ZipEntry.kt

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- * /okio-3-4-0-sources-jar/commonMain/okio/PeekSource.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/-DeprecatedUtf8.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/NioTest.java
- * /okio-3-4-0-sources-jar/commonTest/okio/Utf8KotlinTest.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/-DeprecatedOkio.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/OkioKotlinTest.kt
- *
- /okio-3-4-0-sources-jar/jvmTest/okio/ByteStringKotlinTest.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/ForwardingTimeoutTest.java
- * /okio-3-4-0-sources-jar/jvmTest/okio/GzipKotlinTest.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/Throttler.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/DeflateKotlinTest.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/DeprecatedUpgrade.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/Stopwatch.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/BufferCursorTest.java

- * /okio-3-4-0-sources-jar/jvmTest/okio/ThrottlerTest.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/ThrottlerTakeTest.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/ForwardingTimeoutKotlinTest.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/BufferKotlinTest.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/BufferCursorKotlinTest.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/PipeKotlinTest.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/CommonOptionsTest.kt

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- * /okio-3-4-0-sources-jar/hashFunctions/okio/internal/Sha1.kt

- * /okio-3-4-0-sources-jar/jvmTest/okio/internal/Sha512.kt

- * /okio-3-4-0-sources-jar/jvmTest/okio/MessageDigestConsistencyTest.kt

- * /okio-3-4-0-sources-jar/jvmTest/okio/internal/Sha256.kt

- * /okio-3-4-0-sources-jar/jvmTest/okio/internal/Sha1.kt

- * /okio-3-4-0-sources-jar/hashFunctions/okio/internal/Sha512.kt

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- /okio-3-4-0-sources-jar/hashFunctions/okio/internal/Md5.kt

- * /okio-3-4-0-sources-jar/jvmTest/okio/internal/Md5.kt

- * /okio-3-4-0-sources-jar/hashFunctions/okio/internal/Sha256.kt

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* /okio-3-4-0-sources-jar/commonMain/okio/internal/RealBufferedSource.kt
* /okio-3-4-0-sources-jar/commonMain/okio/internal/RealBufferedSink.kt
* /okio-3-4-0-sources-jar/commonMain/okio/internal/SegmentedByteString.kt
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- * /okio-3-4-0-sources-jar/commonMain/okio/internal/Buffer.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/BufferFactory.kt
- * /okio-3-4-0-sources-jar/nonJvmMain/okio/Buffer.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/AbstractBufferedSinkTest.kt
- * /okio-3-4-0-sources-jar/nonJvmMain/okio/Sink.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/CommonRealBufferedSinkTest.kt
- *
- /okio-3-4-0-sources-jar/commonTest/okio/AbstractBufferedSourceTest.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/Okio.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/RealBufferedSource.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/Sink.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/BufferedSinkFactory.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/Source.kt
- * /okio-3-4-0-sources-jar/nonJvmMain/okio/BufferedSink.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/Buffer.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/RealBufferedSink.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/BufferedSourceFactory.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/CommonOkioKotlinTest.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/BufferedSource.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/OkioTesting.kt
- * /okio-3-4-0-sources-jar/nonJvmMain/okio/Timeout.kt
- * /okio-3-4-0-sources-jar/nonJvmMain/okio/RealBufferedSink.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/Timeout.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/CommonRealBufferedSourceTest.kt
- *
- /okio-3-4-0-sources-jar/commonMain/okio/BufferedSink.kt
- * /okio-3-4-0-sources-jar/nonJvmMain/okio/BufferedSource.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/BufferCommonTest.kt

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- * /okio-3-4-0-sources-jar/commonMain/okio/FileHandle.kt
- * /okio-3-4-0-sources-jar/nativeMain/okio/FileSystem.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/internal/ResourceFileSystemTest.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/TimeoutTest.kt
- * /okio-3-4-0-sources-jar/nonJvmTest/okio/NonJvmTesting.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/ZipBuilder.kt

*

- /okio-3-4-0-sources-jar/jvmMain/okio/JvmFileHandle.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/FileSystem.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/internal/ResourceFileSystem.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/FileHandleFileSystemTest.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/FixedLengthSourceTest.kt
- * /okio-3-4-0-sources-jar/unixMain/okio/UnixFileHandle.kt
- * /okio-3-4-0-sources-jar/mingwX64Main/okio/WindowsFileHandle.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/JvmTesting.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/ZipFileSystemTest.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/internal/FixedLengthSource.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/internal/FileSystem.kt

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- * /okio-3-4-0-sources-jar/commonMain/okio/FileSystem.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/FileMetadata.kt
- * /okio-3-4-0-sources-jar/nativeMain/okio/PosixVariant.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/JvmSystemFileSystemTest.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/ZipFileSystemJavaTest.java
- * /okio-3-4-0-sources-jar/nativeTest/okio/NativeSystemFileSystemTest.kt

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- /okio-3-4-0-sources-jar/appleMain/okio/ApplePosixVariant.kt

- * /okio-3-4-0-sources-jar/nativeMain/okio/FileSource.kt

- * /okio-3-4-0-sources-jar/commonMain/okio/Path.kt

- * /okio-3-4-0-sources-jar/commonMain/okio/HashingSink.kt

- * /okio-3-4-0-sources-jar/commonTest/okio/PathTest.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/NioSystemFileSystem.kt
- * /okio-3-4-0-sources-jar/linuxX64Main/okio/LinuxX64PosixVariant.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/FileSystemJavaTest.java
- * /okio-3-4-0-sources-jar/commonTest/okio/FakeFileSystemTest.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/ForwardingFileSystemTest.kt
- * /okio-3-4-0-sources-jar/commonTest/okio/UnsafeCursorTest.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/Path.kt
- * /okio-3-4-0-sources-jar/appleTest/okio/AppleByteStringTest.kt
- * /okio-3-4-0-sources-jar/mingwX64Main/okio/WindowsPosixVariant.kt
- * /okio-3-4-0-sources-jar/nonJvmMain/okio/Path.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/internal/Path.kt
- *

- /okio-3-4-0-sources-jar/nativeMain/okio/Cinterop.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/internal/Hmac.kt
- * /okio-3-4-0-sources-jar/jvmMain/okio/JvmSystemFileSystem.kt
- * /okio-3-4-0-sources-jar/hashFunctions/okio/internal/Hmac.kt
- * /okio-3-4-0-sources-jar/nativeMain/okio/FileSink.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/internal/HmacTest.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/ForwardingFileSystem.kt
- * /okio-3-4-0-sources-jar/mingwX64Main/okio/Windows.kt
- * /okio-3-4-0-sources-jar/jvmTest/okio/JvmTest.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/HashingSource.kt
- * /okio-3-4-0-sources-jar/unixMain/okio/UnixPosixVariant.kt
- * /okio-3-4-0-sources-jar/jsMain/okio/JsPlatform.kt
- * /okio-3-4-0-sources-jar/nonJvmMain/okio/HashingSink.kt
- * /okio-3-4-0-sources-jar/nativeMain/okio/PosixFileSystem.kt
- * /okio-3-4-0-sources-jar/jsMain/okio/FileSystem.kt
- * /okio-3-4-0-sources-jar/nonJvmMain/okio/HashingSource.kt
- * /okio-3-4-0-sources-jar/commonMain/okio/ExperimentalFileSystem.kt

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* /okio-3-4-0-sources-jar/commonTest/okio/ForwardingSourceTest.kt

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1.32 react 18.2.0

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1.34 github.com/signalfx/sapm-proto v0.7.2

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1.36 snappy-java 1.1.10.4

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Manifest-Version: 1.0

Bnd-LastModified: 1695510918634

Bundle-ActivationPolicy: lazy

Bundle-Activator: org.xerial.snappy.SnappyBundleActivator

Bundle-Description: snappy-java: A fast compression/decompression library

Bundle-DocURL: <http://www.xerial.org/>

Bundle-License: <http://www.apache.org/licenses/LICENSE-2.0.txt>

Bundle-ManifestVersion: 2

Bundle-Name: snappy-java: A fast compression/decompression library

Bundle-NativeCode: org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=x86-64,org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=x64,org/xerial/snappy/native/Windows/x86_64/snappyjava.dll;osname=win32;processor=amd64,org/xerial/snappy/native/Windows/x86/snappyjava.dll;osname=win32;processor=x86,org/xerial/snappy/native/Mac/x86/libsnappyjava.jnilib;osname=macosx;processor=x86,org/xerial/snappy/native/Mac/x86_64/libsnappyjava.dylib;osname=macosx;processor=x86-64,org/xerial/snappy/native/Mac/aarch64/libsnappyjava.dylib;osname=macosx;processor=aarch64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=x86-64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=x64,org/xerial/snappy/native/Linux/x86_64/libsnappyjava.so;osname=linux;processor=amd64,org/xerial/snappy/native/Linux/x86/libsnappyjava.so;osname=linux;processor=x86,org/xerial/snappy/native/Linux/aarch64/libsnappyjava.so;osname=linux;processor=aarch64,org/xerial/snappy/native/Linux/riscv64/libsnappyjava.so;osname=linux;processor=riscv64,org/xerial/snappy/native/Linux/arm/libsnappyjava.so;osname=linux;processor=arm,org/xerial/snappy/native/Linux/armv7/libsnappyjava.so;osname=linux;processor=arm_le,org/xerial/snappy/native/Linux/ppc64/libsnappyjava.so;osname=linux;processor=ppc64le,org/xerial/snappy/native/Linux/s390x/libsnappyjava.so;osname=linux;processor=s390x,org/xerial/snappy/native/AIX/ppc/libsnappyjava.a;osname=aix;processor=ppc,org/xerial/snappy/native/AIX/ppc64/libsnappyjava.a;osname=aix;processor=ppc64,org/xerial/snappy/native/SunOS/x86/libsnappyjava.so;osname=sunos;processor=x86,org/xerial/snappy/native/SunOS/x86_64/libsnappyjava.so;osname=sunos;processor=x86-64,org/xerial/snappy/native/SunOS/sparc/libsnappyjava.so;osname=sunos;processor=sparc

Bundle-SymbolicName: org.xerial.snappy.snappy-java

Bundle-Vendor: xerial.org

Bundle-Version: 1.1.10.4

Created-By: 11.0.20 (Azul Systems, Inc.)

Export-Package: org.xerial.snappy;uses:="org.osgi.framework,org.xerial

.snappy.buffer,org.xerial.snappy.pool";version="1.1.10",org.xerial.snappy.buffer;version="1.1.10",org.xerial.snappy.pool;version="1.1.10"
Implementation-Title: snappy-java
Implementation-URL: <https://github.com/xerial/snappy-java>
Implementation-Vendor: xerial.org
Implementation-Vendor-Id: org.xerial.snappy
Implementation-Version: 1.1.10.4
Import-Package: org.osgi.framework;version="[1.5,2)"
Private-Package:
org.xerial.snappy.native.AIX.ppc,org.xerial.snappy.native.AIX.ppc64,org.xerial.snappy.native.FreeBSD.x86_64,org.xerial.snappy.native.Linux.aarch64,org.xerial.snappy.native.Linux.android-aarch64,org.xerial.snappy.native.Linux.android-arm,org.xerial.snappy.native.Linux.arm,org.xerial.snappy.native.Linux.armv6,org.xerial.snappy.native.Linux.armv7,org.xerial.snappy.native.Linux.ppc,org.xerial.snappy.native.Linux.ppc64,org.xerial.snappy.native.Linux.ppc64le,org.xerial.snappy.native.Linux.riscv64,org.xerial.snappy.native.Linux.s390x,org.xerial.snappy.native.Linux.x86,org.xerial.snappy.native.Linux.x86_64,org.xerial.snappy.native.Mac.aarch64,org.xerial.snappy.native.Mac.x86,org.xerial.snappy.native.Mac.x86_64,org.xerial.snappy.native,org.xerial.snappy.native.SunOS.sparc,org.xerial.snappy.native.SunOS.x86,org.xerial.snappy.native.SunOS.x86_64,org.xerial.snappy.native.Windows.x86,org.xerial.snappy.native.Windows.x86_64
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"
Specification-Title:
snappy-java
Specification-Vendor: xerial.org
Specification-Version: 1.1.10.4
Tool: Bnd-5.1.2.202007211702

Found in path(s):

* /snappy-java-1-1-10-4-jar/META-INF/MANIFEST.MF

1.37 guava 32.1.1-jre

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1.38 json-java 20231013

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1.39 future 1.0.0

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1.40 io-grpc-grpc-api 1.54.0

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protoc-gen-validate

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zero-allocation-hashing

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1.43 @babel/polyfill 7.12.1

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1.44 @dnd-kit/sortable 8.0.0

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1.45 @dnd-kit/utilities 3.2.2

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1.46 chardet 5.2.0

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1.47 javax-annotation-api 1.3.2

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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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1.52 kafka-python 2.0.2

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This is a free and open source implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on

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****NOTE:****

The package is now maintained by *Christian Heimes* and

Simon Pichugin in project <https://github.com/pyasn1/pyasn1>.

Features

- * Generic implementation of ASN.1 types (X.208)
- * Standards compliant BER/CER/DER codecs
- * Can operate on streams of serialized data
- * Dumps/loads ASN.1 structures from Python types
- * 100% Python, works with Python 3.8+

- * MT-safe
- * Contributed ASN.1 compiler [Asn1ate](https://github.com/kimgr/asn1ate)

Why using pyasn1

ASN.1 solves the data serialisation problem. This solution was designed long ago by the wise Ancients. Back then, they did not have the luxury of wasting bits. That is why ASN.1 is designed to serialise data structures of unbounded complexity into something compact and efficient when it comes to processing the data.

That probably explains why many network protocols and file formats still rely on the 30+ years old technology.

Including a number of high-profile Internet protocols and file formats.

Quite a number of books cover the topic of ASN.1. [Communication between heterogeneous systems](http://www.oss.com/asn1/dubuisson.html) by Olivier Dubuisson is one of those high quality books freely available on the Internet.

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How to use pyasn1

With pyasn1 you can build Python objects from ASN.1 data structures. For example, the following ASN.1 data structure:

```
```bash
Record ::= SEQUENCE {
 id INTEGER,
 room [0] INTEGER OPTIONAL,
 house [1] INTEGER DEFAULT 0
}
```
```

Could be expressed in pyasn1 like this:

```
```python
class Record(Sequence):
 componentType = NamedTypes(
 NamedType('id', Integer()),
```

```

OptionalNamedType(
 'room', Integer().subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 0)
)
),
DefaultedNamedType(
 'house', Integer(0).subtype(
 implicitTag=Tag(tagClassContext, tagFormatSimple, 1)
)
)
)
)
...

```

It is in the spirit of ASN.1 to take abstract data description and turn it into a programming language specific form. Once you have your ASN.1 data structure expressed in Python, you can use it along the lines of similar Python type (e.g. ASN.1 `SET` is similar to Python `dict`, `SET OF` to `list`):

```

```python
>>> record = Record()
>>> record['id'] = 123
>>> record['room'] = 321
>>> str(record)
Record:
id=123
room=321
>>>
...

```

Part of the power of ASN.1 comes from its serialisation features. You can serialise your data structure and send it over the network.

```

```python
>>> from pyasn1.codec.der.encoder import encode
>>> substrate = encode(record)
>>> hexdump(substrate)
00000:
 30 07 02 01 7B 80 02 01 41
...

```

Conversely, you can turn serialised ASN.1 content, as received from network or read from a file, into a Python object which you can introspect, modify, encode and send back.

```

```python
>>> from pyasn1.codec.der.decoder import decode
>>> received_record, rest_of_substrate = decode(substrate, asn1Spec=Record())

```

```

>>>
>>> for field in received_record:
>>>     print('{} is {}'.format(field, received_record[field]))
id is 123
room is 321
house is 0
>>>
>>> record == received_record
True
>>> received_record.update(room=123)
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>>> hexdump(substrate)
00000: 30 06 02 01 7B 80 01 7B
...

```

The pyasn1 classes struggle to emulate their Python prototypes (e.g. int, list, dict etc.). But ASN.1 types exhibit more complicated behaviour. To make life easier for a Pythonista, they can turn their pyasn1 classes into Python built-ins:

```

```python
>>> from pyasn1.codec.native.encoder import encode
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{'id': 123, 'room': 321,
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...

```

Or vice-versa -- you can initialize an ASN.1 structure from a tree of Python objects:

```

```python
>>> from pyasn1.codec.native.decoder import decode
>>> record = decode({'id': 123, 'room': 321, 'house': 0}, asn1Spec=Record())
>>> str(record)
Record:
id=123
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>>>
...

```

With ASN.1 design, serialisation codecs are decoupled from data objects, so you could turn every single ASN.1 object into many different serialised forms. As of this moment, pyasn1 supports BER, DER, CER and Python built-ins codecs. The extremely compact PER encoding is expected to be introduced in the upcoming pyasn1 release.

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Version: 0.6.1
Summary: Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)
Home-page: https://github.com/pyasn1/pyasn1
Author: Ilya Etingof
Author-email: etingof@gmail.com
Maintainer: pyasn1 maintenance organization
Maintainer-email: Christian Heimes <christian@python.org>
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ASN.1 library for Python

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How to get pyasn1

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You could `pip install pyasn1` or download it from [PyPI](<https://pypi.org/project/pyasn1>).

If something does not work as expected, [open an issue](<https://github.com/epyasn1/pyasn1/issues>) at GitHub or post your question [on Stack Overflow](<https://stackoverflow.com/questions/ask>) or try browsing pyasn1 [mailing list archives](<https://sourceforge.net/p/pyasn1/mailman/pyasn1-users/>).

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Found in path(s):

```
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/PKG-INFO
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1.egg-info/PKG-INFO
No license file was found, but licenses were detected in source scan.
```

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Found in path(s):

```
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/docs/source/contents.rst
```

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

[metadata]

name = pyasn1

version = attr: pyasn1.\_\_version\_\_

description = Pure-Python implementation of ASN.1 types and DER/BER/CER codecs (X.208)

long\_description = file: README.md

long\_description\_content\_type = text/markdown

license = BSD-2-Clause

license\_files = LICENSE.rst

url = https://github.com/pyasn1/pyasn1

author = Ilya Etingof

author\_email = etingof@gmail.com

maintainer = pyasn1 maintenance organization

maintainer\_email = Christian Heimes <christian@python.org>

project\_urls =

Documentation=https://pyasn1.readthedocs.io

Source=https://github.com/pyasn1/pyasn1

Issues=https://github.com/pyasn1/pyasn1/issues

Changelog=https://pyasn1.readthedocs.io/en/latest/changelog.html

platforms = any

classifiers =

Development Status :: 5 - Production/Stable

Environment :: Console

Intended Audience :: Developers

Intended Audience :: Education

Intended Audience :: Information Technology

Intended Audience :: System

Administrators

Intended Audience :: Telecommunications Industry

License :: OSI Approved :: BSD License

Natural Language :: English

Operating System :: OS Independent

Programming Language :: Python :: 3

Programming Language :: Python :: 3.8

Programming Language :: Python :: 3.9

Programming Language :: Python :: 3.10

Programming Language :: Python :: 3.11

Programming Language :: Python :: 3.12

Programming Language :: Python :: 3.13

Programming Language :: Python :: Implementation :: CPython

Programming Language :: Python :: Implementation :: PyPy

Topic :: Communications

Topic :: Software Development :: Libraries :: Python Modules

[options]

python\_requires = >=3.8

zip\_safe = True

```
setup_requires = setuptools
packages =
pyasn1
pyasn1.type
pyasn1.compat
pyasn1.codec
pyasn1.codec.ber
pyasn1.codec.cer
pyasn1.codec.der
pyasn1.codec.native
```

```
[egg_info]
tag_build =
tag_date = 0
```

Found in path(s):

\* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/setup.cfg

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Found in path(s):

```
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/compat/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_namedval.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/debug.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/base.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/ber/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_opentype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/useful.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/der/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/namedval.py
*
/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/base.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/cer/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_univ.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/test_encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/test_debug.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/native/encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/ber/encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/univ.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_char.py
```

```

* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_namedtype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/cer/test_encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/native/test_encoder.py
*
/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/setup.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_useful.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/constraint.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/error.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/tag.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/__main__.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/native/decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_tag.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/namedtype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/opentype.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/error.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/ber/eoo.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/char.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/ber/test_decoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/type/tagmap.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/test_streaming.py
*
/pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/streaming.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/codec/der/test_encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/cer/encoder.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/compat/integer.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/tests/type/test_constraint.py
* /pyasn1-0-6-1-1-tar-gz/pyasn1-0.6.1/pyasn1/codec/der/encoder.py

```

## 1.55 pyasn1-modules 0.4.1

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## 1.57 types-zen-observable 0.8.7

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# 1.58 graphql 15.10.1

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# 1.59 google-auth 2.38.0

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# 1.65 google-auth-http2 0.2.0

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## 1.67 cachetools 5.5.2

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## 1.68 python-lxml 5.3.1

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## 1.71 styled-components 5.3.11

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# 1.72 types-react-dom 18.3.7

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{
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 "module": "node16",
 "lib": [
 "es6"
],
 "noImplicitAny": true,
 "noImplicitThis": true,
 "strictNullChecks": true,
 "strictFunctionTypes": true,
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 "noEmit": true,
 "forceConsistentCasingInFileNames": true
 },
 "files": [
 "index.d.ts",
 "npm-license-crawler-tests.ts"
]
}
```

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 "@typescript-eslint/naming-convention": "off"
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```

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}

```



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"files": [
 "index.d.ts",
 "validate-npm-package-license-tests.ts"
]
}
ISC
MIT
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```

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```
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 "compilerOptions": {
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 "lib": [
 "es6"
],
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 "strictNullChecks": true,
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 },
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 "nodejs-license-file-tests.ts"
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 "index.d.ts",
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],
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 "noImplicitThis": true,
 "strictNullChecks": false,
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 "types": [],
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 "compilerOptions": {
 "module": "node16",
 "lib": [
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],
 "noImplicitAny": true,
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 "strictFunctionTypes": true,
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 "forceConsistentCasingInFileNames": true
 },
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 "index.d.ts",
 "license-key-gen-tests.ts"
]
}
{
 "compilerOptions": {
 "module": "node16",
 "lib": [
 "es6"
],
 "noImplicitAny": true,
 "noImplicitThis": true,
 "strictNullChecks": true,
 "strictFunctionTypes": true,
 "types": [],
 "noEmit": true,
 "forceConsistentCasingInFileNames": true
 },
 "files": [
 "index.d.ts",
 "license-checker-webpack-plugin-tests.ts"
]
}

```

}

## 1.73 @splunk/moment 0.6.1

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Found in path(s):

- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/LegacyDescriptorsUtil.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/TextFormat.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/MessageInfo.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/Schema.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/GeneratedMessageInfoFactory.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/ExtensionSchemaFull.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/MessageLiteToString.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/CodedInputStream.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/Android.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/NewInstanceSchemas.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/GeneratedMessageV3.java
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* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/ExtensionRegistryFactory.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/CodedOutputStreamWriter.java
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* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/ArrayDecoders.java
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* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/IterableByteBufferInputStream.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/MapFieldBuilder.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/UnknownFieldSchema.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/ProtobufArrayList.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/CodedOutputStream.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/ProtocolMessageEnum.java
*
/protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/Utf8.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/RpcChannel.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/FieldSet.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/ExtensionLite.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/MapFieldSchemaLite.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/SingleFieldBuilderV3.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/NioByteString.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/ListFieldSchema.java

```



- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/ProtocolStringList.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/LongArrayList.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/LazyFieldLite.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/AbstractMessage.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/NewInstanceSchemaFull.java
- \*
- /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/UnsafeUtil.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/MapFieldSchema.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/Internal.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/MapEntry.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/NewInstanceSchema.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/UnknownFieldSetLiteSchema.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/FloatArrayList.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/MapFieldSchemaFull.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/ExtensionRegistry.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/AbstractMessageLite.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/UnknownFieldSet.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/MessageInfoFactory.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/Java8Compatibility.java
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- /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/CodedInputStreamReader.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/CheckReturnValue.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/Protobuf.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/UninitializedMessageException.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/Reader.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/LazyField.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/MapFieldReflectionAccessor.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/JavaType.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/DescriptorMessageInfoFactory.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/MessageSchema.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/RpcController.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/LazyStringList.java
- \*
- /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/Writer.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/Parser.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/MapFieldLite.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/PrimitiveNonBoxingCollection.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/CompileTimeConstant.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/ManifestSchemaFactory.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/ProtoSyntax.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/ExtensionSchemaLite.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/RepeatedFieldBuilder.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/ServiceException.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/RepeatedFieldBuilderV3.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/SmallSortedMap.java
- \* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/Descriptors.java
- \*

```

/protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/SingleFieldBuilder.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/BufferAllocator.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/UnknownFieldSetLite.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/MapFieldSchemas.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/ByteOutput.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/AllocatedBuffer.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/MessageLiteOrBuilder.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/BlockingService.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/GeneratedMessage.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/RpcUtil.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/DoubleArrayList.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/FieldInfo.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/SchemaUtil.java
*
/protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/SchemaFactory.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/Message.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/StructuralMessageInfo.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/MapField.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/AbstractProtobufList.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/MessageReflection.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/TextFormatEscaper.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/ByteString.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/RopeByteString.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/RpcCallback.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/UnmodifiableLazyStringList.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/RawMessageInfo.java
*
/protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/UnknownFieldSetSchema.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/TextFormatParseInfoTree.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/Service.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/ExperimentalApi.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/GeneratedMessageLite.java
* /protoBuf-java-3-25-5-sources-1-jar/com/google/protobuf/InlineMe.java

```

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```

java.util.List<com.google.protobuf.DescriptorProtos.FieldOptions.OptionTargetType> getTargetsList();
getEditionDefaultsList();
public java.util.List<com.google.protobuf.DescriptorProtos.FieldOptions.OptionTargetType> getTargetsList() {
public java.util.List<com.google.protobuf.DescriptorProtos.FieldOptions.EditionDefault> getEditionDefaultsList() {
if (!getEditionDefaultsList()
.equals(other.getEditionDefaultsList())) return false;
hash = (53 * hash) + getEditionDefaultsList().hashCode();
public java.util.List<com.google.protobuf.DescriptorProtos.FieldOptions.OptionTargetType> getTargetsList() {
public java.util.List<com.google.protobuf.DescriptorProtos.FieldOptions.EditionDefault> getEditionDefaultsList() {
getDefaultsList();
public java.util.List<com.google.protobuf.DescriptorProtos.FeatureSetDefaults.FeatureSetEditionDefault>
getDefaultsList() {
if (!getDefaultsList()

```

```
.equals(other.getDefaultList())) return false;
hash
= (53 * hash) + getDefaultList().hashCode();
public java.util.List<com.google.protobuf.DescriptorProtos.FeatureSetDefaults.FeatureSetEditionDefault>
getDefaultList() {
getLeadingDetachedCommentsList();
getLeadingDetachedCommentsList() {
size += 1 * getLeadingDetachedCommentsList().size();
if (!getLeadingDetachedCommentsList()
.equals(other.getLeadingDetachedCommentsList())) return false;
hash = (53 * hash) + getLeadingDetachedCommentsList().hashCode();
getLeadingDetachedCommentsList() {
```

Found in path(s):

\* /protobuf-java-3-25-5-sources-1-jar/com/google/protobuf/DescriptorProtos.java

# 1.75 codahale to signalfx 1.0.43

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# Jackson JSON processor

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```
* /mogwee-executors-1-2-1-sources-jar/com/mogwee/executors/WrappedRunnableFuture.java
* /mogwee-executors-1-2-1-sources-jar/com/mogwee/executors/LoggingExecutor.java
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*
* /mogwee-executors-1-2-1-sources-jar/com/mogwee/executors/WrappedCallable.java
* /mogwee-executors-1-2-1-sources-jar/com/mogwee/executors/FailsafeScheduledExecutor.java
```

# 1.77 google-guice-core-library 6.0.0

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# 1.78 mongodb java driver core 4.11.2

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Found in path(s):

```
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/ExplainableReadOperation.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/OpCode.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/IndexModel.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/Sorts.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoSocketOpenException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/MapReduceStatistics.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/DBObject.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/client/model/geojson/codecs/GeometryEncoderHelper.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/netty/package-info.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/authentication/GcpCredentialHelper.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/ValidationOptions.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/management/ConnectionPoolStatistics.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/fill/package-info.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/ClusterId.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/DecimalFormatHelper.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/FuzzySearchOptions.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoNamespace.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/selector/WritableServerSelector.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/ServerVersion.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/BaseCluster.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/FindOneAndDeleteOptions.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/fill/FillOptions.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/geojson/codecs/GeometryCodec.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/client/model/Util.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/vault/package-info.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/CompoundSearchOperatorBase.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/TlsChannelStreamFactoryFactory.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/SaslAuthenticator.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactoryFactory.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/changestream/FullDocument.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/event/ConnectionPoolListenerMulticaster.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/mql/MqlExpression.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/diagnostics/logging/SLF4JLogger.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/SocksSocket.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/operation/AbstractWriteSearchIndexOperation.java
```

```

*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/MapReduceInlineResultsCursor.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/AuthorizationHeader.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/geojson/Polygon.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoTimeoutException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/diagnostics/logging/NoOpLogger.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/BSONTimestampCodec.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/AsynchronousClusterEventListener.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/logging/LogMessage.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ServerAddressWithResolver.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/selector/ServerSelector.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoSecurityException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/WindowOutputField.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/geojson/Geometry.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/binding/ReadBinding.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ReplyMessage.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/BsonArrayWrapper.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/ServerConnectionState.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/selector/package-info.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/GSSAPIAuthenticator.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/package-info.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/session/ServerSession.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/netty/NettyStream.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoCommandException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/FindOneAndUpdateOptions.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ClusterableServerFactory.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/dns/DefaultDnsResolver.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/BucketGranularity.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/client/vault/EncryptOptionsHelper.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/DescriptionHelper.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/operation/CommandResultDocumentCodec.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/binding/ClusterBinding.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/CommandResultArrayCodec.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/client/model/CountStrategy.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/NoOpCommandEventSender.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/WriteConcernResult.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/DropDatabaseOperation.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/InsertOneOptions.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ClientMetadataHelper.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/SearchScoreExpression.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ServerListenerAdapter.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/diagnostics/logging/Logger.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/management/ConnectionPoolStatisticsMBean.java

```

```

*
/mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/client/model/changestream/ChangeStreamLevel.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/client/model/AbstractConstructibleBson.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/async/function/AsyncCallbackFunction.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/X509Authenticator.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ServerHeartbeatSucceededEvent.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/Accumulators.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ConnectionCheckedInEvent.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ServerMonitorListener.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/LoadBalancedCluster.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/DefaultServer.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/MongoTimeUnit.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/mql/MqlInteger.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/SplittablePayloadBsonWriter.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/netty/NettyStreamFactory.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ResponseBuffers.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/SocketStream.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/DefaultServerMonitor.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/ConstantSearchScore.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/async/function/RetryingSyncSupplier.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoBulkWriteException.java
*
/mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/client/model/gejson/codecs/AbstractGeometryCodec.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ServerOpeningEvent.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ConnectionCheckOutStartedEvent.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/BaseFindAndModifyOperation.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/PowerOfTwoBufferPool.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/UpdateManyModel.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/session/SessionContext.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactory.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoNodeIsRecoveringException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/DBRefCodecProvider.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/IgnoreableRequestContext.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/CommandSucceededEvent.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/mql/MqlValue.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/netty/package-info.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/client/model/search/FilterCompoundSearchOperator.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/bulk/WriteConcernError.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/authentication/AwsSdkV1CredentialSupplier.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/AsyncOperations.java
* /mongodb-driver-core-4-11-2-sources-1-

```

```

jar/com/mongodb/internal/operation/EstimatedDocumentCountOperation.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/client/model/changestream/ChangeStreamDocument.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/gridfs/codecs/package-info.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/Field.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/CommandOperationHelper.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/async/function/AsyncCallbackRunnable.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ServerHeartbeatFailedEvent.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ConnectionClosedEvent.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/mql/SwitchCase.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/ReadOperation.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/BucketAutoOptions.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/DropCollectionOperation.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ByteBufBsonHelper.java
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/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/ResourceUtil.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoCompressor.java
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* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/DBRef.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/MessageSettings.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/AsyncWriteOperation.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/InternalConnectionFactory.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/fill/LocfFillOutputField.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/binding/TransactionContext.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/DBObjectFactory.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ClusterableServer.java
*
/mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/InternalConnectionInitializationDescription.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/client/model/geojson/codecs/NamedCoordinateReferenceSystemCodec.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/Stream.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/client/vault/package-info.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/selector/ServerAddressSelector.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/ReadConcernLevel.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystem.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/DateRangeSearchOperator.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/mql/Branches.java
- \* /mongodb-driver-core-4-11-2-sources-1-
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/LogSearchScoreExpression.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/BsonWriterDecorator.java
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- /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/ListCollectionsOperation.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/vault/RewrapManyDataKeyResult.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/TopologyVersion.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/IndexMap.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/UnixSocketChannelStream.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/DateNearSearchOperator.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoExecutionTimeoutException.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ServerAddressHelper.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/result/InsertManyResult.java
- \*
- /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoSocketClosedException.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/SearchOptions.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/TransactionOperation.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/SearchPath.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/async/AsyncBatchCursor.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/selector/ReadPreferenceServerSelector.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/geojson/LineString.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoSocketReadTimeoutException.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/SearchIndexRequest.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/ValueBoostSearchScore.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/package-info.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/AbortTransactionOperation.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/netty/NettyByteBuf.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/StreamFactoryHelper.java
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- /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ByteBufferBsonOutput.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/DefaultConnectionFactory.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/binding/AsyncReadBinding.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/mql/package-info.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/management/NullMBeanServer.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/IndexOptionDefaults.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/package-info.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/spi/dns/InetAddressResolver.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/binding/ConnectionSource.java
- \*
- /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/ChangeStreamOperation.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/bulk/InsertRequest.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/NumberNearSearchOperator.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/ReadConcern.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/PushOptions.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/thread/package-info.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/MapReduceHelper.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/DnsSrvRecordMonitorFactory.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/geojson/Position.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/authentication/package-info.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/BasicDBList.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/client/model/AggregationLevel.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/BufferProvider.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ByteBufBsonDocument.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/FindAndUpdateOperation.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/time/package-info.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/CollationStrength.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ClusterOpeningEvent.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoSocketWriteException.java
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- /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/ReadPreference.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/bulk/WriteRequestWithIndex.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ServerClosedEvent.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/RequestMessage.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/DateSearchFacet.java
- \* /mongodb-driver-core-4-11-2-sources-1-
- jar/com/mongodb/internal/operation/MapReduceInlineResultsAsyncCursor.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/SocketStreamFactory.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/inject/package-info.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/session/ClientSessionContext.java

\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/PathSearchScoreExpression.java  
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 \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/MustCompoundSearchOperator.java  
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 /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/MongoChangeStreamException.java  
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 \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/package-info.java  
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 \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/session/ClientSession.java  
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 /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ConnectionReadyEvent.java  
 \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ConnectionGenerationSupplier.java  
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ServerTypeHelper.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/SyncOperations.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/BsonWriterHelper.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/RelevanceSearchScoreExpression.java
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- /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/MergeOptions.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/annotations/package-info.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/CreateCollectionOperation.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/bulk/IndexRequest.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/CompositeByteBuf.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/densify/DensifyRange.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/geojson/PolygonCoordinates.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/IdHoldingBsonWriter.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/geojson/package-info.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/binding/AsyncWriteBinding.java
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- /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/SearchCount.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/vault/EncryptOptions.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/ClusteredIndexOptions.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/geojson/CoordinateReferenceSystemType.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/mql/MqlEntry.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/BuildersHelper.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/ServerSettings.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/search/GeoNearSearchOperator.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/connection/SslSettings.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/AsyncReadOperation.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/Jep395RecordCodecProvider.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/UnwindOptions.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/Locks.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/CommandStartedEvent.java
- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodecProvider.java
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/Variable.java
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\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/event/ServerListener.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/async/function/AsyncCallbackBiFunction.java  
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\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/MongoCredentialWithCache.java  
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\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/ServerApi.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/ServerVersionHelper.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/lang/NonNull.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ReadConcernHelper.java  
\*  
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/lang/package-info.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/operation/WriteConcernHelper.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/ReadPreferenceHedgeOptions.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/TransactionOptions.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/ServerApiVersion.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/LoggerSettings.java  
\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/lang/NonNullApi.java  
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* https://github.com/marianobarrios/tls-channel
*/

```

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* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/spi/dns/package-info.java
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/mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/tlschannel/util/DirectBufferDeallocator.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java
* /mongodb-driver-core-4-11-2-sources-1-
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* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java
* /mongodb-driver-core-4-11-2-sources-1-
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* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/tlschannel/HeapBufferAllocator.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/async/package-info.java

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* /mongodb-driver-core-4-11-2-sources-1-
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* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java
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/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/Util.java
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* /mongodb-driver-core-4-11-2-sources-1-
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* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/ServerTlsChannel.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/package-info.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/TlsExplorer.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java
* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/internal/connection/tlschannel/async/ExtendedAsynchronousByteChannel.java
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\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/assertions/Assertions.java

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\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/annotations/Sealed.java

\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/annotations/Evolving.java

\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/annotations/Beta.java

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\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/annotations/NotThreadSafe.java

\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/annotations/ThreadSafe.java

\* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/annotations/Immutable.java

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- \* <https://github.com/marianobarrios/tls-channel>
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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java

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- \* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/internal/authentication/SaslPrep.java

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Found in path(s):

```

* /mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/densify/DateDensifyRange.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/client/model/search/NumberRangeSearchOperatorBase.java
* /mongodb-driver-core-4-11-2-sources-1-
jar/com/mongodb/client/model/search/DateRangeSearchOperatorBase.java
*
/mongodb-driver-core-4-11-2-sources-1-jar/com/mongodb/client/model/densify/NumberDensifyRange.java

```

## 1.79 mongodb-driver 4.11.2

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Found in path(s):

```

* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MongoBatchCursorAdapter.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/CryptConnection.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/FindIterableImpl.java
*

```

```

/mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/Crypt.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MappingIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/GridFSBuckets.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/MongoIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/package-info.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/ClientSessionBinding.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MongoIterableImpl.java
*
/mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/CryptBinding.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/ListIndexesIterableImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/DistinctIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/ListSearchIndexesIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/MapReduceIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/SynchronousContextProvider.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/CommandMarker.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/Crypts.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/KeyManagementService.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/ListSearchIndexesIterableImpl.java
*
/mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MongoMappingCursor.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/vault/ClientEncryptions.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/FindIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MongoCollectionImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/ChangeStreamIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/MongoChangeStreamCursor.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/AggregateIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/CollectionInfoRetriever.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/vault/ClientEncryption.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/MongoCursor.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/AggregateIterableImpl.java
*
/mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/ClientEncryptionImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/MongoClients.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/GridFSBucketImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MongoClientImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/ListIndexesIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MongoChangeStreamCursorImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/package-info.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/KeyRetriever.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/ChangeStreamIterableImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/MongoCollection.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/GridFSBucket.java
*

```

```

/mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/GridFSUploadStream.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/ListCollectionsIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/OperationExecutor.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/MongoClientFactory.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/ListDatabasesIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MongoClientDelegate.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/GridFSFindIterable.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/MongoClient.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MongoDatabaseImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/MongoDatabase.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/DistinctIterableImpl.java
*
/mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/vault/package-info.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/MapReduceIterableImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java
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* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/TransactionBody.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/ClientSessionImpl.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/ClientSessionClock.java
* /mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/ClientSession.java
*
/mongodb-driver-sync-4-11-2-sources-1-jar/com/mongodb/client/internal/package-info.java

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## 1.80 bson 4.11.2

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 \* /bson-4-11-2-sources-1-jar/org/bson/codecs/jsr310/Jsr310CodecProvider.java  
 \* /bson-4-11-2-sources-1-jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java  
 \* /bson-4-11-2-sources-1-jar/org/bson/codecs/jsr310/LocalTimeCodec.java  
 \*  
 \* /bson-4-11-2-sources-1-jar/org/bson/codecs/jsr310/InstantCodec.java

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 \* /bson-4-11-2-sources-1-jar/org/bson/internal/ChildCodecRegistry.java  
 \* /bson-4-11-2-sources-1-jar/org/bson/internal/LazyCodec.java  
 \* /bson-4-11-2-sources-1-jar/org/bson/codecs/DocumentCodecProvider.java  
 \* /bson-4-11-2-sources-1-jar/org/bson/codecs/ParameterizedCollectionCodec.java  
 \*

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/bson-4-11-2-sources-1-jar/org/bson/codecs/ByteCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/types/ObjectId.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/LongCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/io/BsonOutput.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/Either.java
* /bson-4-11-2-sources-1-jar/org/bson/json/ShellDecimal128Converter.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/JsonObjectCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java
* /bson-4-11-2-sources-1-jar/org/bson/BsonJavaScriptWithScope.java
* /bson-4-11-2-sources-1-jar/org/bson/json/JsonMode.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/TypeData.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/annotations/BsonProperty.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/NumberCodecHelper.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/LazyMissingCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/FieldPropertyAccessor.java
*
/bson-4-11-2-sources-1-jar/org/bson/BsonSymbol.java
* /bson-4-11-2-sources-1-jar/org/bson/ByteBuf.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/CreatorExecutable.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/DecoderContext.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/BsonInvalidOperationException.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/annotations/BsonCreator.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/Parameterizable.java
* /bson-4-11-2-sources-1-jar/org/bson/BsonArray.java
* /bson-4-11-2-sources-1-jar/org/bson/diagnostics/SLF4JLogger.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/BsonDBPointerCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/BsonArrayCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/json/LegacyExtendedJsonBinaryConverter.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
*
/bson-4-11-2-sources-1-jar/org/bson/json/ExtendedJsonTimestampConverter.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/configuration/OverridableUuidRepresentationCodecProvider.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/UuidCodecHelper.java
* /bson-4-11-2-sources-1-jar/org/bson/json/StrictJsonWriter.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/annotations/BsonExtraElements.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/BsonBinaryCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/BsonSerializationException.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/AbstractCollectionCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/PojoCodec.java
* /bson-4-11-2-sources-1-jar/org/bson/BasicBSONCallback.java
* /bson-4-11-2-sources-1-jar/org/bson/RawBsonArray.java
* /bson-4-11-2-sources-1-jar/org/bson/types/BSONTimestamp.java
* /bson-4-11-2-sources-1-jar/org/bson/assertions/package-info.java
*
/bson-4-11-2-sources-1-jar/org/bson/diagnostics/Logger.java
* /bson-4-11-2-sources-1-jar/org/bson/conversions/Bson.java

```

- \* /bson-4-11-2-sources-1-jar/org/bson/BsonContextType.java
- \* /bson-4-11-2-sources-1-jar/org/bson/json/ExtendedJsonInt64Converter.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/IterableCodecProvider.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/ValueCodecProvider.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/UuidCodec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/BsonDateTime.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/BinaryCodec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/ClassModel.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/BsonRegularExpressionCodec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/BsonNullCodec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java
- \* /bson-4-11-2-sources-1-jar/org/bson/json/ExtendedJsonDecimal128Converter.java
- \* /bson-4-11-2-sources-1-jar/org/bson/json/JsonDoubleConverter.java
- \*
- /bson-4-11-2-sources-1-jar/org/bson/json/ShellBinaryConverter.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/MaxKeyCodec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/BsonValue.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
- \* /bson-4-11-2-sources-1-jar/org/bson/BsonReader.java
- \* /bson-4-11-2-sources-1-jar/org/bson/BSONException.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/BsonBooleanCodec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/configuration/CodecConfigurationException.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/PropertyMetadata.java
- \* /bson-4-11-2-sources-1-jar/org/bson/BsonDocumentWrapper.java
- \* /bson-4-11-2-sources-1-jar/org/bson/json/ExtendedJsonDoubleConverter.java
- \* /bson-4-11-2-sources-1-jar/org/bson/BsonElement.java
- \* /bson-4-11-2-sources-1-jar/org/bson/BsonMaxKey.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/configuration/CodecRegistries.java
- \*
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- \* /bson-4-11-2-sources-1-jar/org/bson/internal/BsonUtil.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/ByteArrayCodec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/PropertySerialization.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/PropertyAccessorImpl.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/types/package-info.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/io/BsonInput.java
- \* /bson-4-11-2-sources-1-jar/org/bson/json/ExtendedJsonMaxKeyConverter.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/EncoderContext.java
- \* /bson-4-11-2-sources-1-jar/org/bson/json/ShellMinKeyConverter.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/AtomicBooleanCodec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/InstanceCreator.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/json/ExtendedJsonDateTimeConverter.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/TypeParameterMap.java

- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/BsonInt64Codec.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/BigDecimalCodec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/UuidRepresentation.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/PropertyModelSerializationInlineImpl.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/BsonDocument.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/json/JsonScanner.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/LazyBSONList.java
- \* /bson-4-11-2-sources-1-jar/org/bson/BsonReaderMark.java
- \* /bson-4-11-2-sources-1-jar/org/bson/types/Symbol.java
- \* /bson-4-11-2-sources-1-jar/org/bson/json/JsonBuffer.java
- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/Decimal128Codec.java
- \* /bson-4-11-2-sources-1-jar/org/bson/BsonNull.java
- \* /bson-4-11-2-sources-1-jar/org/bson/internal/ProvidersCodecRegistry.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/AbstractMapCodec.java
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- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/BsonCodecProvider.java

- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java

- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/IdGenerators.java

- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/IdGenerator.java

- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/BsonCodec.java

\*

- \* /bson-4-11-2-sources-1-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java

# 1.81 slf4j-api-module 2.0.13

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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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```
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 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/EnableLookupExceptionsModule.java
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 *
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 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/messaging/TopicDistributionService.java
 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/InheritableThreadContext.java
 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/ImmediateScopeModule.java
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 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/InheritableThread.java
 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/messaging/Topic.java
 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/messaging/SubscribeTo.java
 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ContractIndicator.java
 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/AOPProxyCtl.java
 *
 * /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/HK2Invocation.java
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Found in path(s):

```

* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/ImmediateErrorHandler.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/DescriptorFileFinder.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ServiceLocatorListener.java
*
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/ImmediateHelper.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/ImmediateContext.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/DynamicConfigurationListener.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ClassAnalyzer.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Immediate.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/InterceptionService.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/PopulatorPostProcessor.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/ClasspathDescriptorFileFinder.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/RethrowErrorService.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ProxyForSameScope.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/SingleCache.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/DuplicatePostProcessor.java
*
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Populator.java
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* /hk2-api-2-5-0-sources-5-jar/org/jvnet/hk2/annotations/InhabitantAnnotation.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/PostConstruct.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/BuilderHelper.java
*
/hk2-api-2-5-0-sources-5-jar/org/jvnet/hk2/annotations/Service.java
* /hk2-api-2-5-0-sources-5-jar/org/jvnet/hk2/annotations/Optional.java
* /hk2-api-2-5-0-sources-5-jar/org/jvnet/hk2/annotations/package-info.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/DescriptorBuilder.java
* /hk2-api-2-5-0-sources-5-jar/org/jvnet/hk2/annotations/Contract.java
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```
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/MethodParameter.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/GreedyDefaultImplementation.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/MethodParameterImpl.java
*
/hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/GreedyResolver.java
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\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ActiveDescriptor.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/binding/BindingBuilderFactory.java

\*

/hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/StarFilter.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/PerLookup.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/HK2Exception.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Filter.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Unproxiable.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Context.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/MultiException.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Operation.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/DescriptorBuilderImpl.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/AbstractActiveDescriptor.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ErrorInformation.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ProxyCtl.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/DescriptorType.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/InstanceLifecycleListener.java

\*

/hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/IndexedFilterImpl.java

\* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/ServiceLocatorUtilities.java

- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/binding/AbstractBindingBuilder.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ServiceHandle.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/binding/ScopedBindingBuilder.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/binding/NamedBindingBuilder.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/FactoryDescriptors.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Self.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/IterableProvider.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Proxiable.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/ActiveDescriptorBuilder.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/JustInTimeInjectionResolver.java
- \*
- /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/PerThreadContext.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/AliasDescriptor.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/binding/BindingBuilder.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Visibility.java
- \* /hk2-api-2-5-0-sources-5-jar/org/jvnet/hk2/annotations/ContractsProvided.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/InstanceLifecycleEventType.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/UnsatisfiedDependencyException.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Validator.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/FactoryDescriptorsImpl.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/ConstantActiveDescriptor.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/UseProxy.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/DescriptorVisibility.java
- \*
- /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/InstanceLifecycleEvent.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/InjecteeImpl.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/ActiveDescriptorBuilderImpl.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ValidationService.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/NamedImpl.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Factory.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/binding/ServiceBindingBuilder.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/Binder.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/AnnotationLiteral.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/extension/ServiceLocatorGenerator.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Injectee.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ServiceLocatorState.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/DescriptorImpl.java
- \*
- /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ErrorType.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Unqualified.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ValidationInformation.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ServiceLocatorFactory.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/InjectionResolver.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ErrorMessage.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ServiceLocator.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/binding/ScopedNamedBindingBuilder.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/SpecificFilterImpl.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/IndexedFilter.java

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* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Metadata.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/ServiceLocatorFactoryImpl.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/DynamicConfigurationService.java
*
/hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/HK2Loader.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Descriptor.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/HK2LoaderImpl.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/PerThread.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Rank.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/DynamicConfiguration.java
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```

* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/DescriptorFileFinderInformation.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/InstantiationService.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Customizer.java
*
/hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/ImmediateController.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/Customize.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/InstantiationData.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/HandleAndService.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/UnqualifiedImpl.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/DuplicateServiceException.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/messaging/MessageReceiver.java
* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/internal/ImmediateLocalLocatorFilter.java
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- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/DuplicatePostProcessorMode.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/TwoPhaseTransactionData.java
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- /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/TwoPhaseResource.java

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- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/TypeLiteral.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/utilities/binding/AbstractBinder.java
- \* /hk2-api-2-5-0-sources-5-jar/org/glassfish/hk2/api/PreDestroy.java

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## 1.97 use-query-params 1.2.3

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ISC

## 1.98 @opentelemetry/tracing 0.24.0

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# 1.99 @splunk/visualizations 25.13.1

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# \*\*SPLUNK GENERAL TERMS\*\*

Last Updated: February 10, 2023

These Splunk General Terms ("General Terms") between Splunk Inc., a Delaware corporation, with its principal place of business at 270 Brannan Street, San Francisco, California 94107, U.S.A ("Splunk" or "we" or "us" or "our") and you ("Customer" or "you" or "your") apply to the purchase of licenses and subscriptions for Splunk Offerings. By clicking on the appropriate button, or by downloading, installing, accessing or using the Offerings, you agree to these General Terms. If you are entering into these General Terms on behalf of Customer, you represent that you have the authority to bind Customer. If you do not agree to these General Terms, or if you are not authorized to accept the General Terms on behalf of the Customer, do not download, install, access, or use any of the Offerings.

\*\*See the General Terms Definitions Exhibit attached for definitions of capitalized terms not defined herein.\*\*

### #### \*\*1. License Rights\*\*

A. **General Rights.** You have the nonexclusive, worldwide, nontransferable and nonsublicensable right, subject to payment of applicable Fees and compliance with the terms of these General Terms, to use your Purchased Offerings for your Internal Business Purposes during the Term and up to the Capacity purchased.

B. **Copies for On-Premise Products.** You have the right to make a reasonable number of copies of On-Premises Products for archival and back-up purposes.

C. **Splunk Extensions.** You may use Splunk Extensions solely in connection with the applicable Purchased Offering subject to the same terms and conditions for that Offering (including with respect to Term) and payment of any Fees associated with the Splunk Extensions. Some Splunk Extensions may be made available under license terms that provide broader rights than the license rights you have to the applicable underlying Offering (e.g., if the Extension is Open Source Software). These broader rights will apply to that Splunk Extension. Splunk Extensions may be installed on Hosted Services pursuant to our instructions.

D. **Trials, Evaluations, Beta and Free Licenses.**

<ol type="i">

<li><b>Trials and Evaluations.</b> Offerings provided for trials and evaluations are provided at no charge, and their use will be for a limited duration.</li>

<li><b>Beta Licenses.</b> Some Offerings and features may be available to you as a preview, or as an alpha, beta or other pre-release version (each, a "<b>Beta Offering</b>"). All rights for Beta Offerings are solely for internal testing and evaluation. Your use of a Beta Offering will be for the term specified by us, and if no term is specified, then for the earlier of one year from the start date of the Beta Offering or when that version of the Beta Offering becomes generally available. We may discontinue the Beta Offering at any time and may decide not to make any of the features and

functionality generally available.</li>

<li><b>Free Licenses.</b> From time to time, we may make certain Offerings available for full use (i.e., not subject to limited evaluation purposes) at no charge. These free Offerings may have limited features, functions, and other technical limitations.</li>

<li><b>Donated Offerings.</b> Donated Offerings are free limited Offerings donated to qualifying Nonprofits under a Splunk donation program. By procuring and making use of a Donated Offering, you hereby represent and warrant that you are a lawfully organized Nonprofit, and you agree to provide verification of your nonprofit status to Splunk upon request. At Splunk's request, you agree: (a) to publish a press release and case study on your use of the Donated Offering; and (b) to be interviewed for the production of a Splunk customer video that will accompany the press release and case study. Splunk will draft and edit all content in collaboration with you and will obtain your edits and

written approval (email is sufficient) prior to publication, and such approval will not be unreasonably withheld. You will allow Splunk to reference your Nonprofit and leading spokespeople in press releases with your written approval (email is sufficient). Splunk may use your name and logo on sales presentations, websites, and other marketing collateral without your prior approval.</li>

<li><b>Test and Development Licenses.</b> For Offerings identified as "<b>Test and Development</b>" Offerings on your Order, you only have the right to use those Offerings up to the applicable Capacity on a non-production system for non-production uses, including product migration testing or pre-production staging, or testing new data sources, types, or use cases. Test and Development Offerings may not be used for any revenue generation, commercial activity, or other productive business or purpose.</li>

<li><b>Limitations.</b> Notwithstanding anything to the contrary in these General Terms, we do not provide maintenance and support, warranties, service level commitments, or indemnification for Test and Development Offerings, trials, evaluations, or free or Beta Offerings.</li>

</ol>

## #### \*\*2. Purchasing Through Authorized Resellers, Digital Marketplaces, and Splunk Affiliates\*\*

A. **\*\*Authorized Resellers and Digital Marketplaces.\*\*** If you purchase Offerings through a Splunk authorized reseller or Digital Marketplace, these General Terms will govern those Offerings. Your payment obligations for the Purchased Offerings will be with the authorized reseller or Digital Marketplace, as applicable, not Splunk. You will have no direct Fee payment obligations to Splunk for those Offerings. However, in the event that you fail to pay the Digital Marketplace for your Purchased Offerings, Splunk retains the right to enforce your payment obligations and collect directly from you.

Any terms agreed to between you and the authorized reseller that are in addition to these General Terms are solely between

you and the authorized reseller and Digital Marketplace, as applicable. No agreement between you and an authorized reseller or Digital Marketplace is binding on Splunk or will have any force or effect with respect to the rights in, or the operation, use or provision of, the Offerings.

B. **\*\*Splunk Affiliate Distributors.\*\*** Splunk has appointed certain Splunk Affiliates as its non-exclusive distributors of the Offerings (each, a "<b>Splunk Affiliate Distributor</b>"). Each Splunk Affiliate Distributor is authorized by Splunk to negotiate and enter into Orders with Customers. Where a purchase from Splunk is offered by a Splunk Affiliate Distributor, Customer will issue Orders, and make payments, to the Splunk Affiliate Distributor which issued the quote for the Offering. Each Order will be deemed a separate contract between Customer and the relevant Splunk Affiliate Distributor and will be subject to these General Terms. For the avoidance of doubt, Customer agrees that: (i)

the total liability of Splunk under these General Terms as set forth in Section 22 (Limitation of Liability) states the overall combined liability of Splunk and Splunk Affiliate Distributors; (ii) the entering into Orders by a Splunk Affiliate Distributor will not be deemed to expand Splunk and its Affiliates overall responsibilities or liability under these General Terms; and (iii) Customer will have no right to recover more than once from the same event.

#### #### \*\*3. Your Contractors and Third-Party Providers\*\*

You may permit your authorized consultants, contractors, and agents (“Third-Party Providers”) to access and use your Purchased Offerings, but only on your behalf in connection with providing services to you, and subject to the terms and conditions of these General Terms. Any access or use by a Third-Party Provider will be subject to the same limitations and restrictions that apply to you under these General Terms, and you will be responsible for any Third-Party Providers

actions relating to their use of the Offering. The aggregate use by you and all of your Third-Party Providers must not exceed the Capacity purchased, and nothing in this Section is intended to or will be deemed to increase such Capacity.

#### #### \*\*4. Hosted Services and Specific Offering Terms\*\*

A. **Service Levels.** When you purchase Hosted Services as a Purchased Offering, we will make the applicable Hosted Services available to you during the Term in accordance with these General Terms. The Service Level Schedules (as identified in the Specific Offering Terms referenced in Section 4(F) below) and associated remedies will apply to the availability and uptime of the applicable Hosted Service. If applicable, service credits will be available for downtime in accordance with the Service Level Schedule.

B. **Connections.** You are responsible for obtaining and maintaining all telecommunications, broadband and computer equipment and services needed to access and use Hosted Services, and for paying all associated charges.

C. **Your Responsibility for Data Protection.** You are responsible for: (i) selecting from the security configurations and security options made available by Splunk in connection with a Hosted Service; (ii) taking additional measures outside of the Hosted Service to the extent the Hosted Service Offering does not provide the controls that may be required or desired by you; and (iii) routine archiving and backing up of Customer Content. You agree to notify Splunk promptly if you believe that an unauthorized third party may be using your accounts or if your account information is lost or stolen.

D. **Refund Upon Termination for Splunk's Breach.** If a Hosted Service is terminated by you for Splunk's uncured material breach in accordance with these General Terms, Splunk will refund you any prepaid subscription fees covering the remainder of the Term after the effective date of termination.

E. **Return of Customer Content.** Customer Content may be retrieved by you and removed from the Hosted Services in accordance with the applicable Documentation. We will make the Customer Content available on the Hosted Services for thirty (30) days after termination of a subscription for your retrieval. After that thirty (30) day period, we will have no obligation to maintain the storage of your Customer Content, and you hereby authorize us thereafter to, and we will, unless legally prohibited, delete all remaining Customer Content. If you require assistance in connection with migration of your Customer Content, depending on the nature of the request, we may require a mutually agreed upon fee for assistance.

F. **Specific Offering Terms.** Specific security controls and certifications, data policies, service descriptions,

Service Level Schedules and other terms specific to a Hosted Service and other Offerings (&quot;\*\*Specific Offering Terms\*\*&quot;,) are set forth here: [www.splunk.com/SpecificTerms](www.splunk.com/SpecificTerms), and will apply, and be deemed incorporated herein by reference.

#### #### \*\*5. Support and Maintenance\*\*

The specific Support Program included with a Purchased Offering will be identified in the applicable Order. Splunk will provide the purchased level of support and maintenance services in accordance with the terms of the Support Exhibit attached to these General Terms.

#### #### \*\*6. Configuration and Implementation Services\*\*

Splunk offers standard services to implement and configure your Purchased Offerings. These services are purchased under an Order and are subject to the payment of the Fees therein and the terms of the Configuration and Implementation Services Exhibit attached to these General Terms.

#### #### \*\*7. Data Protection for Personal Data\*\*

Splunk will follow globally recognized data protection principles and industry-leading standards for the security of personal data. Splunk will comply with the requirements and obligations set forth in Splunk's Data Processing Addendum (&quot;\*\*DPA\*\*&quot;), located at [https://www.splunk.com/en\\_us/legal/splunk-dpa.html](https://www.splunk.com/en_us/legal/splunk-dpa.html), which includes standard terms for the processing of personal data (including, as applicable, personal data in a Hosted Service).

#### #### \*\*8. Security\*\*

A. **Security for Hosted Services: Standard Environment.** Splunk will implement industry leading security safeguards for the protection of Customer Confidential Information, including Customer Content transferred to and stored within the Hosted Services. These safeguards include commercially reasonable administrative, technical, and organizational measures to protect Customer Content against destruction, loss, alteration, unauthorized disclosure, or unauthorized access, including such things as information security policies and procedures, security awareness training, threat and vulnerability management, incident response and breach notification, and vendor risk management. Splunk's technical safeguards are further described in the Splunk Cloud Platform Security Addendum (&quot;\*\*SC-SA\*\*&quot;), located at [https://www.splunk.com/en\\_us/legal/splunk-cloud-security-addendum.html](https://www.splunk.com/en_us/legal/splunk-cloud-security-addendum.html), and the Observability Suite Security Addendum (&quot;\*\*OS-SA\*\*&quot;), located at [https://www.splunk.com/en\\_us/legal/splunk-observability-security-addendum.html](https://www.splunk.com/en_us/legal/splunk-observability-security-addendum.html), as applicable, and are incorporated herein by reference. Splunk may update the SC-SA and OS-SA from time to time provided, that updates will be subject to Section 24 below.

B. **Security for Hosted Services: Premium HIPAA Environment.** For Hosted Services Offerings provisioned in Splunk Cloud Platforms Premium HIPAA environment (as specified in an Order), in addition to the protections under the SC-SA and these General Terms, Splunk will comply with the requirements and obligations set forth in Splunk Business Associate Agreement found here: [https://www.splunk.com/en\\_us/legal/splunk-baa.html](https://www.splunk.com/en_us/legal/splunk-baa.html).

C. **Additional Security for Other Hosted Services.** From time to time, Splunk may offer custom security safeguards for

unique Hosted Services offerings. Any such security safeguards will be as set forth in the applicable Documentation and Specific Offering Terms.

D. **\*\*Security for On Premises Offerings.\*\*** Splunk will implement industry leading security safeguards for the protection of Splunk's IT systems, products, facilities and assets, and any Customer Confidential Information accessed or processed therein, e.g., customer account information, support tickets (&quot;**\*\*Corporate Security Controls\*\***&quot;). Splunk's Corporate Security Controls include such things as information security policies and procedures, security awareness training, physical and environmental access controls, threat and vulnerability management, incident response and breach notification, and vendor risk management. Splunk's Corporate Security Controls are further described in Splunk's Information Security Addendum (&quot;**\*\*ISA\*\***&quot;), located at [https://www.splunk.com/en\\_us/legal/information-security-addendum.html](https://www.splunk.com/en_us/legal/information-security-addendum.html) and are incorporated herein by reference.

E. **\*\*Product Development Security.\*\*** Splunk will follow secure software development practices and applies an industry standard, risk-based approach to its software development lifecycle (&quot;**\*\*SDLC\*\***&quot;), which includes, as applicable, such things as performing security architecture reviews, open source security scans, virus detection, dynamic application security testing, network vulnerability scans and external penetration testing in the development environment. Product-specific information about the SDLC in our Offerings is detailed more fully in the ISA. Splunk's Product Security Portal, located at [https://www.splunk.com/en\\_us/product-security.html](https://www.splunk.com/en_us/product-security.html), contains detailed information about Splunk's program for managing and communicating product vulnerabilities. Splunk categorizes product vulnerabilities in accordance with the Common Vulnerability Scoring System (&quot;Medium,&quot; &quot;High,&quot; or &quot;Critical&quot;) and uses commercially reasonable efforts to remediate vulnerabilities depending on their severity level in accordance with industry standards.

F. **\*\*Maintaining Protections.\*\*** Notwithstanding anything to contrary in these General Terms, or any policy or terms referenced herein via hyperlink (or any update thereto), Splunk may not, during a Term materially diminish the security protections set forth in these General Terms, any Specific Offering Terms, or the applicable security addendum.

#### #### **\*\*9. Use Restrictions\*\***

Except as expressly permitted in an Order, these General Terms or our Documentation, you agree not to (nor allow any user or Third Party Provider to): (a) reverse engineer (except to the extent specifically permitted by statutory law), decompile, disassemble or otherwise attempt to discover source code or underlying structures, ideas or algorithms of any Offering; (b) modify, translate or create derivative works based on the Offerings; (c) use an Offering to ingest, monitor or analyze the machine, IT system or application data of any third party; (d) resell, transfer or distribute any Offering; (e) access or use any Offering in order to monitor its availability, performance, or functionality for competitive purposes; (f) attempt to disable or circumvent any license key or other technological mechanisms or measures intended to prevent, limit or control use or copying of, or access to, Offerings; (g) separately use any of the applicable features and functionalities of the Offerings with external applications or code not furnished by Splunk or any data not processed by the Offering; (h) exceed the Capacity purchased or (i) use any Offering in violation of all applicable laws and regulations (including but not limited to any applicable privacy and intellectual property laws).

#### #### **\*\*10. Our Ethics, Compliance and Corporate Responsibility\*\***

A. **\*\*Ethics and Corporate Responsibility.\*\*** Splunk is committed to acting ethically and in compliance with applicable law, and we have policies and



guidelines in place to provide awareness of, and compliance with, the laws and regulations that apply to our business globally. We are committed to ethical business conduct, and we use diligent efforts to perform in accordance with the highest global ethical principles, as described in the Splunk Code of Conduct and Ethics found [here]([https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?\\_ga=2.27382325.82146825.1675981089-269939538.1673288458&\\_gac=1.127441023.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ\\_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw\\_wcB&\\_gl=1\\*1xgvjcs\\*\\_ga\\*MjY5OTM5NTM4LjE2NzMyODg0NTg.\\*\\_ga\\_5EPM2P39FV\\*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w](https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?_ga=2.27382325.82146825.1675981089-269939538.1673288458&_gac=1.127441023.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw_wcB&_gl=1*1xgvjcs*_ga*MjY5OTM5NTM4LjE2NzMyODg0NTg.*_ga_5EPM2P39FV*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w)).

B. **\*\*Anti-Corruption.\*\*** We implement and maintain programs for compliance with applicable anti-corruption and anti-bribery laws. Splunk policy prohibits the offering or soliciting of any illegal or improper bribe, kickback, payment, gift, or thing of value to or from any of your employees or agents in connection with these General Terms. If we learn of any violation of the above, we will use reasonable efforts to promptly notify you at the main contact address provided by you to Splunk.

C. **\*\*Export.\*\*** We certify that Splunk is not on any of the relevant U.S. or EU government lists of prohibited persons, including the Treasury Departments List of Specially Designated Nationals and the Commerce Departments List of Denied Persons or Entity List. Export information regarding our Offerings, including our export control classifications for our Offerings, is found here: [https://www.splunk.com/en\\_us/legal/export-controls.html](https://www.splunk.com/en_us/legal/export-controls.html).

#### #### **\*\*11. Usage Data\*\***

From time to time, Splunk may collect Usage Data generated as a by-product of your use of Offerings. Usage Data does not include Customer Content. We collect Usage Data for a variety of reasons, such as to identify, understand, and anticipate performance issues and the factors that affect them, to provide updates and personalized experiences to customers, and to improve the Splunk Offerings. Details on Splunk's Usage Data collection practices are set forth in Splunk's Privacy Policy found here: [https://www.splunk.com/en\\_us/legal/privacy/privacy-policy.html](https://www.splunk.com/en_us/legal/privacy/privacy-policy.html).

#### #### **\*\*12. Capacity and Usage Verification\*\***

A. **\*\*Certification and Verification.\*\*** At Splunk's request, you will furnish Splunk a certification signed by your authorized representative verifying that your use of the Purchased Offering is in accordance with these General Terms and the applicable Order. For On-Premises Products, we may also ask you from time to time, but not more frequently than once per calendar period, to cooperate with us to verify usage and adherence to purchased Capacities. If Splunk requests a verification process, you agree to provide Splunk reasonable access to the On-Premises Product installed at your facility (or as hosted by your Third-Party Provider). If Splunk does any verification, it will be performed with as little interference as possible to your use of the On-Premises Product and your business operations. Splunk will comply with your (or your Third-Party Providers) reasonable security procedures.

B. **\*\*Overages.\*\*** If a verification or usage report reveals that you have exceeded the purchased Capacity or usage rights for your Purchased Offering (e.g., used as a service bureau) during the period reviewed, then we will have the right to invoice you using the applicable Fees at list price then in effect, which will be payable in accordance with these General Terms. Without limiting Splunk's foregoing rights, with respect to Hosted Services, Splunk may work with you to reduce usage so that it conforms to the applicable usage limit, and we will in good faith discuss options to right size your subscription as appropriate. Notwithstanding anything to the contrary herein, Splunk will have the right to directly invoice you for overages, regardless of whether you purchased the Purchased Offering from an

authorized reseller

or Digital Marketplace. See the Specific Offering Terms for any additional information related to overages for a Hosted Service.

#### #### \*\*13. Our Use of Open Source\*\*

Certain Offerings may contain Open Source Software. Splunk makes available in the applicable Documentation a list of Open Source Software incorporated in our On-Premises Products as required by the respective Open Source Software licenses. Any Open Source Software that is delivered as part of your Offering and which may not be removed or used separately from the Offering is covered by the warranty, support and indemnification provisions applicable to the Offering. Some of the Open Source Software may have additional terms that apply to the use of the Offering (e.g., the obligation for us to provide attribution of the specific licensor), and those terms will be included in the Documentation; however, these terms will not (a) impose any additional restrictions on your use of the Offering, or (b) negate or amend any of our responsibilities with respect to the Offering.

#### #### \*\*14. Splunk Developer Tools and Customer Extensions\*\*

Splunk makes Splunk Developer Tools available to you so you can develop Extensions for use with your Purchased Offerings (Extensions that you develop, "\*\*Customer Extensions\*\*").

You have a nonexclusive, worldwide, nontransferable, nonsublicensable right, subject to the terms of these General Terms, to use Splunk Developer Tools to develop your Customer Extensions, including to support interoperability between the Offering and your system or environment. Splunk proprietary legends or notices contained in the Splunk Developer Tools may not be removed or altered when used in or with your Customer Extension. You retain title to your Customer Extensions, subject to Splunk's ownership in our Offerings and any materials and technology provided by Splunk in connection with the Splunk Developer Tools. You agree to assume full responsibility for the performance and distribution of Customer Extensions.

#### #### \*\*15. Third Party Products, Third-Party Extensions, Third-Party Content and Unsupported Splunk Extensions\*\*

A. **Third-Party Extensions on Splunkbase.** Splunk makes Extensions developed and/or made available by a third-party on Splunkbase ("\*\*Third-Party Extension\*\*") available for download or access as a convenience to its customers. Splunk makes no promises or guarantees related to any Third-Party Extension, including the accuracy, integrity, quality, or security of the Third-Party Extension. Nothing in these General Terms or on Splunkbase will be deemed to be a representation or warranty by Splunk with respect to any Third-Party Extension, even if a particular Third-Party Extension is identified as "certified" or "validated" for use with an Offering. We may, in our reasonable discretion, block or disable access to any Third-Party Extension at any time. Your use of a Third-Party Extension is at your own risk and may be subject to any additional terms, conditions, and policies applicable to that Third-Party Extension (such as license terms, terms of service, or privacy policies of the providers of such Third-Party Extension). Third-Party Extensions may be installed on Hosted Services pursuant to our instructions.

B. **Third Party Content.** Hosted Services may contain features or functions that enable interoperation with Third-Party Content that you, in your sole discretion, choose to add to a Hosted Service. You may be required to obtain access separately to such Third-Party Content from the respective providers, and you may be required to

grant Splunk access to your accounts with such providers to the extent necessary for Splunk to allow the interoperation with the Hosted Service. By requesting or allowing Splunk to enable access to such Third-Party Content in connection with the Hosted Services, you certify that you are authorized under the providers terms to allow such access. If you install or enable

(or direct or otherwise authorize Splunk to install or enable) Third-Party Content for use with a Hosted Service where the interoperation includes access by the third-party provider to your Customer Content, you hereby authorize Splunk to allow the provider of such Third-Party Content to access Customer Content as necessary for the interoperation. You agree that Splunk is not responsible or liable for disclosure, modification or deletion of Customer Content resulting from access to Customer Content by such Third-Party Content, nor is Splunk liable for any damages or downtime that you may incur or any impact on your experience of the Hosted Service, directly or indirectly, as a result of your use of and/or reliance upon, any Third-Party Content, sites or resources.

C. **Splunk As a Reseller.** When you purchase third party products (&quot;**Third Party Products**&quot;) from Splunk as specified in an Order (which products shall include third party software, but not any support which Splunk itself has contracted to provide), the following provision applies. Splunk acts solely as a reseller of Third Party Products, which are fulfilled by the relevant third party vendor (&quot;**Third Party Vendor**&quot;), and the purchase and use of Third Party Products is subject solely to the terms, conditions and policies made available by such Third Party Vendor. Consequently, Splunk makes no representation or warranty of any kind regarding the Third Party Products, whether express, implied, statutory or otherwise, and specifically disclaims all implied terms, conditions and warranties (including as to quality, performance, availability, fitness for a particular purpose or non-infringement) to the maximum extent permitted by applicable law. You will bring any claim in relation to Third Party Products against the applicable Third Party Vendor directly. In no event will Splunk be liable to you for any claim, loss or damage arising out of the use, operation or availability of Third Party Product (whether such liability arises in contract, negligence, tort, or otherwise).

D. **Unsupported Splunk Extensions.** The Service Level Schedule commitments for any applicable Hosted Services will not apply to Splunk Extensions labeled on Splunkbase as &quot;**Not Supported**&quot;. You agree that Splunk is not responsible for any impact on your experience of a Hosted Service, as a result of your installation and/or use of any &quot;Not Supported&quot; Splunk Extensions, and that your sole remedy will be to remove the &quot;Not Supported&quot; Splunk Extension from the applicable Hosted Service. Further, some Splunk Extensions may not be compatible or certified for use with that Hosted Service (e.g., only specific Splunk Extensions are validated for our FedRAMP authorized environment for Splunk Cloud Platform). Please refer to the applicable Documentation for more information related to the Splunk Extensions compatible with your specific Purchased Offering.

#### **16.**

Your Compliance

A. **Lawful Use of Offerings.** When you access and use an Offering, you are responsible for complying with all laws, rules, and regulations applicable to your access and use. This includes being responsible for your Customer Content and users, for your users compliance with these General Terms, and the accuracy, lawful use of, and the means by which you acquired your Customer Content. You may not transmit and/or store PHI Data, PCI Data or ITAR Data within a Hosted Services unless you have specifically purchased a Purchased Offering for that applicable regulated Hosted Services environment (as identified in an Order).

B. **Registration.** You agree to provide accurate and complete information when you register for and use any Offering and agree to keep this information current. Each person who uses any Offering must have a separate username and password. For Hosted Services, you must provide a valid email address for each person authorized to

use your Hosted Services,

and you may only have one person per username and password. Splunk may reasonably require additional information in connection with certain Offerings (e.g., technical information necessary for your connection to a Hosted Service), and you will provide this information as reasonably requested by Splunk. You are responsible for securing, protecting, and maintaining the confidentiality of your account usernames, passwords and access tokens.

C. **\*\*Export Compliance.\*\*** You will comply with all applicable export laws and regulations of the United States and any other country (&quot;Export Laws&quot;) where your users use any of the Offerings. You certify that you are not on any of the relevant U.S. government lists of prohibited persons, including the Treasury Departments List of Specially Designated Nationals and the Commerce Departments List of Denied Persons or Entity List. You will not export, re-export, ship, transfer or otherwise use the Offerings in any country subject to an embargo or other sanction by the United States, including, without limitation, Iran, Syria, Cuba, the Crimea Region of Ukraine, Sudan and North Korea, and you will not use any Offering for any purpose prohibited by the Export Laws.

D. **\*\*GovCloud Services.\*\*** If you access or use any Hosted Services in the specially isolated Amazon Web Services (&quot;**\*\*AWS\*\***&quot;) GovCloud (US) region (including without limitation any Hosted Services that are provisioned in a FedRAMP authorized environment within the AWS GovCloud (US) region)), you hereby represent and warrant that: (i) you are a &quot;US Person&quot; as defined under ITAR (see 22 CFR part 120.62); (ii) you have and will maintain a valid Directorate of Defense Trade Controls registration, if required by ITAR; (iii) you and your end users are not subject to export control restrictions under US export control laws and regulations (i.e., users are not denied or debarred parties or otherwise subject to sanctions); (iv) you will maintain an effective compliance program to ensure compliance with applicable US export control laws and regulations, including ITAR, as applicable; and (v) you will maintain effective access controls as described in the Specific Offering Terms for the applicable Hosted Services. You are responsible for verifying that any user accessing Customer Content in the Hosted Services in the AWS GovCloud (US) region is eligible to access such Customer Content. The Hosted Services in the AWS GovCloud (US) region may not be used to process or store classified data. You will be responsible for all sanitization costs incurred by Splunk if users introduce classified data into the Hosted Services in the AWS GovCloud (US) region. You may be required to execute additional addendums to this agreement prior to provisioning of selected Hosted Services.

E. **\*\*Acceptable Use.\*\*** Without limiting any terms under these General Terms, you will also abide by our Hosted Services acceptable use policy: <https://www.splunk.com/view/SP-CAAAMB6>.

####

**\*\*17. Confidentiality\*\***

A. **\*\*Confidential Information.\*\*** Each party will protect the Confidential Information of the other. Accordingly, Receiving Party agrees to: (i) protect the Disclosing Partys Confidential Information using the same degree of care (but in no event less than reasonable care) that it uses to protect its own Confidential Information of a similar nature; (ii) limit use of Disclosing Partys Confidential Information for purposes consistent with these General Terms, and (iii) use commercially reasonable efforts to limit access to Disclosing Partys Confidential Information to its employees, contractors and agents or those of its Affiliates who have a bona fide need to access such Confidential Information for purposes consistent with these General Terms and who are subject to confidentiality obligations no less stringent than those herein.

B. **\*\*Compelled Disclosure of Confidential Information.\*\*** Notwithstanding the foregoing terms, the Receiving Party

may disclose Confidential Information of the Disclosing Party if it is compelled by law enforcement agencies or regulators to do so, provided the Receiving Party gives the Disclosing Party prior notice of such compelled disclosure (to the extent legally permitted) and reasonable assistance, at the Disclosing Party's cost, if the Disclosing Party wishes to contest the disclosure. If the Receiving Party is compelled to disclose the Disclosing Party's Confidential Information as part of a civil proceeding to which the Disclosing Party is a Party, and the Disclosing Party is not contesting the disclosure, the Disclosing Party will reimburse the Receiving Party for its reasonable cost of compiling and providing secure access to such Confidential Information.

#### #### \*\*18. Payment\*\*

The payment terms below only apply when you purchase Offerings directly from Splunk. When you purchase from an authorized reseller or Digital Marketplace, the payment terms are between you and the authorized reseller or Digital Marketplace. However, a breach of your payment obligations for an Offering with a Digital Marketplace will be deemed a breach of this Section 18.

A. **Fees.** You agree to pay all Fees specified in the Orders. Fees are non-cancelable and non-refundable, except as otherwise expressly set forth in these General Terms. Without limiting any of our other rights or remedies herein, overdue charges may accrue interest monthly at the rate of 1.5% of the then-outstanding unpaid balance, or the maximum rate permitted by law, whichever is lower. Fees are due and payable either within 30 days from the date of Splunk's invoice or as otherwise stated in the Order.

B. **Credit Cards.** If you pay by credit, or debit card you: (i) will provide Splunk or its designated third-party payment processor with valid credit or debit card information; and (ii) hereby authorize Splunk or its designated third-party payment processor to charge such credit or debit card for all items listed in the applicable Order. Such charges must be paid in advance or in accordance with any different billing frequency stated in the applicable Order. You are responsible for providing complete and accurate billing and contact information and notifying Splunk in a timely manner of any changes to such information.

C. **Taxes.** All Fees quoted are exclusive of applicable taxes and duties, including any applicable sales and use tax. You are responsible for paying any taxes or similar government assessments (including, without limitation, value-added, sales, use or withholding taxes). We will be solely responsible for taxes assessable against us based on our net income, property, and employees.

#### #### \*\*19. Splunk's Warranties

A. **Relationship to Applicable Law.** We will not seek to limit our liability, or any of your warranties, rights and remedies, to the extent the limits are not permitted by applicable law (e.g., warranties, remedies or liabilities that cannot be excluded by applicable law).

B.

**General Corporate Warranty.** Splunk warrants that it has the legal power and authority to enter into these General Terms.

C. **Hosted Services Warranty.** Splunk warrants that during the applicable Term: (i) Splunk will not materially decrease the overall functionality of the Hosted Services; and (ii) the Hosted Services will perform materially in accordance with the applicable Documentation. Our sole and exclusive liability, and your sole and exclusive remedy for any breach of these warranties, will be your right to terminate the applicable Hosted Services Purchased Offering, and we will refund to you any prepaid but unused Fees for the remainder of the Term.

D. **\*\*On-Premises Product Warranty.\*\*** Splunk warrants that for a period of ninety (90) days from the Delivery of an On-Premises Product, the On-Premises Product will substantially perform the material functions described in the applicable Documentation for such On-Premises Product, when used in accordance with the applicable Documentation. Splunk's sole liability, and your sole remedy, for any failure of the On-Premises Product to conform to the foregoing warranty, is for Splunk to do one of the following (at Splunk's sole option and discretion) (i) modify, or provide an Enhancement for, the On-Premises Product so that it conforms to the foregoing warranty, (ii) replace your copy of the On-Premises Product with a copy that conforms to the foregoing warranty, or (iii) terminate the Purchased Offering with respect to the non-conforming On-Premises Product and refund the Fees paid by you for such non-conforming On-Premises Product.

E. **\*\*Disclaimer of Implied Warranties.** Except as expressly set forth above, the Offerings are provided "as is" with no warranties or representations whatsoever express or implied. Splunk and its suppliers and licensors disclaim all warranties and representations, including any implied warranties of merchantability, satisfactory quality, fitness for a particular purpose, noninfringement, or quiet enjoyment, and any warranties arising out of course of dealing or trade usage. Splunk does not warrant that use of Offerings will be uninterrupted, error free or secure, or that all defects will be corrected.

#### #### **\*\*20. Ownership\*\***

A. **\*\*Offerings.\*\*** As between you and Splunk, Splunk owns and reserves all right, title, and interest in and to the Offerings, developer tools and other Splunk materials, including all intellectual property rights therein. We retain rights in anything delivered or developed by us or on our behalf under these General Terms. No rights are granted to you other than as expressly set forth in these General Terms.

B. **\*\*Customer Content.\*\*** You own and reserve all right, title and interest in your Customer Content. By sending Customer Content to a Hosted Service, you grant us a worldwide, royalty free, non-exclusive license to access and use the Customer Content for purposes of providing you the Hosted Service.

C. **\*\*Feedback.\*\*** You have no obligation to provide us with ideas for improvement, suggestions, or other feedback (collectively, "Feedback") in connection with an Offering, unless otherwise expressly set forth in the applicable Order. If, however, you provide any Feedback, you hereby grant to Splunk a non-exclusive, transferable, irrevocable, worldwide, royalty-free license (with rights to sublicense) to make, use, sell, offer to sell, reproduce, modify, distribute, make available, publicly display and perform, disclose and otherwise commercially exploit the Feedback.

#### #### **\*\*21. Term and Termination\*\***

A. **\*\*Term and Renewal.\*\*** These General Terms will commence upon the Effective Date and will remain in effect until the expiration of all applicable Purchased Offerings, unless earlier terminated pursuant to this Section. Termination of a specific Purchased Offering will not affect the Term of any other Purchased Offering. Termination of these General Terms will have the effect of terminating all Purchased Offerings. Grounds for terminating a Purchased Offering (e.g., for non-payment), that are specific to the Purchased Offering, will not be grounds to terminate Purchased Offerings where no breach exists. Unless indicated otherwise in an Order, the Term of a Purchased Offering (and these General Terms) will automatically renew for an additional period of time equal to the length of the preceding Term, unless one party notifies the other

of its intent not to renew at least one (1) day in advance of the expiration of the Term or then-current renewal period.

B. **\*\*Termination.\*\*** Either party may terminate these General Terms, or any Purchased Offering, by written notice to the other party in the event of a material breach of these General Terms, or the specific terms associated with that Purchased Offering, that is not cured within thirty (30) days of receipt of the notice. Upon any expiration or termination of a Purchased Offering, the rights and licenses granted to you for that

Purchased Offering will automatically terminate, and you agree to immediately (i) cease using and accessing the Offering, (ii) return or destroy all copies of any On-Premises Products and other Splunk materials and Splunk Confidential Information in your possession or control, and (iii) upon our request, certify in writing the completion of such return or destruction. Upon termination of these General Terms or any Purchased Offering, Splunk will have no obligation to refund any Fees or other amounts received from you during the Term. Notwithstanding any early termination above, except for your termination for our uncured material breach, you will still be required to pay all Fees payable under an Order.

C. **\*\*Survival.\*\*** The termination or expiration of these General Terms will not affect any provisions herein which by their nature survive termination or expiration, including the provisions that deal with the following subject matters: definitions, ownership of intellectual property, confidentiality, payment obligations, effect of termination, limitation of liability, privacy, and the “Miscellaneous” section in these General Terms.

D. **\*\*Suspension of Service.\*\*** In the event of a material breach or threatened material breach of this Agreement, Splunk may, without limiting its other rights and remedies, suspend your use of the Hosted Service until such breach is cured or Splunk reasonably believes there is no longer a threat, provided that, we will give you at least five (5) days prior notice before suspension. Suspension of a Hosted Service will have no impact on the duration of the Term of the Purchased Offering, or the associated Fees owed.

#### #### **\*\*22. Limitation of Liability\*\***

**\*\*In no event will the aggregate liability of either party, together with any of its Affiliates, arising out of or related to any Purchased Offering exceed the total amount paid by you for that Purchased Offering in the twelve (12) months preceding the first incident out of which the liability arose. However, the foregoing limitation will not limit your obligations under the “Payment” section above and will not be deemed to limit your rights to any service level credits under any applicable Service Level Schedule. Furthermore, the cap above will not be deemed to limit Splunk’s right to recover amounts for your use of an Offering in excess of the Capacity purchased or use outside of Internal Business Purposes.\*\***

**\*\*In no event will either party or its Affiliates have any liability arising out of or related to these General Terms for any lost profits, revenues, goodwill, or indirect, special, incidental, consequential, cover, business interruption or punitive damages.\*\***

**\*\*The foregoing limitations will apply whether the action is in contract or tort and regardless of the theory of liability, even if a party or its Affiliates have been advised of the possibility of such damages or if a party’s or its Affiliates remedy otherwise fails of its essential purpose.\*\***

**\*\*The limitation of liability herein will not apply to a party’s infringement of the other party’s intellectual property rights, indemnification obligations, or the fraud, gross negligence or willful misconduct of a party.\*\***

**\*\*The foregoing disclaimers of damages will also not apply to the extent prohibited by law. Some jurisdictions do not allow the exclusion or limitation of certain damages. To the extent such a law applies to you, some or all of the exclusions or limitations set forth above may not apply to you, and you may have additional rights.\*\***

**#### \*\*23. Indemnity\*\***

A. **\*\*Our Indemnification to You.\*\*** Splunk will defend and indemnify you, and pay all damages (including attorneys fees and costs) awarded against you, or that are agreed to in a settlement, to the extent a claim, demand, suit or proceeding is made or brought against you or your Affiliates by a third party (including those brought by a government entity) alleging that a Purchased Offering infringes or misappropriates such third partys patent, copyright, trademark or trade secret (a &quot;**\*\*Customer Claim\*\***&quot;). Splunk will have no obligation under the foregoing provision to the extent a Customer Claim arises from your breach of these General Terms, your Customer Content, Third-Party Extension, or the combination of the Offering with: (i) Customer Content; (ii) Third-Party Extensions; (iii) any software other than software provided by Splunk; or (iv) any hardware or equipment. However, Splunk will indemnify against combination claims to the extent (y) the combined software is necessary for the normal operation of the Purchased Offering (e.g., an operating system), or (z) the Purchased Offering provides substantially all the essential elements of the asserted infringement or misappropriation claim. Splunk may in its sole discretion and at no cost to you: (1) modify any Purchased Offering so that it no longer infringes or misappropriates a third party right, (2) obtain a license for your continued use of the Purchased Offering, in accordance with these General Terms, or (3) terminate the Purchased Offering and refund to you any prepaid fees covering the unexpired Term.

B. **\*\*Your Indemnification to Us.\*\*** Unless expressly prohibited by applicable law, you will defend and indemnify us, and pay all damages (including attorneys fees and costs) awarded against Splunk, or that are agreed to in a settlement, to the extent a claim, demand, suit or proceeding is made or brought against Splunk or its Affiliates by a third party (including those brought by a government entity) that: (i) alleges that your Customer Content or Customer Extensions infringes or misappropriates such third partys patent, copyright, trademark or trade secret, or violates another right of a third party; or (ii) alleges that your Customer Content or your use of any Offering violates applicable law or regulation.

C. **\*\*Mutual Indemnity.\*\*** Each party will defend, indemnify and pay all damages (including attorneys fees and costs) awarded against the other party, or that are agreed to in a settlement to the extent that an action brought against the other party by a third party is based upon a claim for bodily injury (including death) to any person, or damage to tangible property resulting from the negligent acts or willful misconduct of the indemnifying party or its personnel hereunder, and will pay any reasonable, direct, out-of-pocket costs, damages and reasonable attorneys fees attributable to such claim that are awarded against the indemnified party (or are payable in settlement by the indemnified party).

D. **\*\*Process for Indemnification.\*\*** The indemnification obligations above are subject to the party seeking indemnification to: (i) provide the other party with prompt written notice of the specific claim; (ii) give the indemnifying party sole control of the defense and settlement of the claim (except that the indemnifying party may not settle any claim that requires any action or forbearance on the indemnified partys part without their prior consent, which will not unreasonably withhold or delay); and (iii) gives the indemnifying party all reasonable assistance, at such partys expense.

**#### \*\*24. Updates to Offerings\*\***



Our Offerings and policies may be updated over the course of our relationship. From time to time, Splunk may update or modify an Offering and our policies, provided that: (a) the change and modification applies to all customers generally, and are not targeted to any particular customer; (b) no such change or modification will impose additional fees on you during the applicable Term or additional restrictions on your use of the Offering, (c) no such change will override or supersede the allocation of risk between us under these General Terms, including without limitation the terms under Sections 22 (Limitation of Liability) and 23 (Indemnity); (d) no such change or modification will materially reduce the security protections or overall functionality of the applicable Offering; and (e) any such change or modification will apply only prospectively, and will not apply to any breach or dispute that arose between the parties prior to the effective date of the change or modification. In the event of any conflict between these General Terms and the policies incorporated herein by reference, these General Terms will control.

#### #### \*\*25. Governing Law\*\*

These General Terms will be governed by and construed in accordance with the laws of the State of California, as if performed wholly within the state and without giving effect to the principles of conflict of law. Any legal action or proceeding arising under these General Terms will be brought exclusively in the federal or state courts located in the Northern District of California and the parties hereby consent to personal jurisdiction and venue therein. Splunk may seek injunctive or other relief in any state, federal, or national court of competent jurisdiction for any actual or alleged infringement of intellectual property or other proprietary rights of Splunk, its Affiliates, or any third party.

Neither the Uniform Computer Information Transactions Act nor the United Nations Convention for the International Sale of Goods will apply to these General Terms.

#### #### \*\*26. Use of Customer Name\*\*

You agree that we may add your name to our customer list and identify you as a Splunk customer on Splunk's websites. Any further public use of your name in connection with Splunk marketing activities (e.g., press releases) will require your prior approval.

#### #### \*\*27. Miscellaneous\*\*

A. **Different Terms.** Splunk expressly rejects terms or conditions in any Customer purchase order or other similar document that are different from or additional to the terms and conditions set forth in these General Terms. Such different or additional terms and conditions will not become a part of the agreement between the parties notwithstanding any subsequent acknowledgement, invoice or license key that Splunk may issue.

B. **No Future Functionality.** You agree that your purchase of any Offering is not contingent on the delivery of any future functionality or features, or dependent on any oral or written statements made by Splunk regarding future functionality or features.

C. **Notices.** Except as otherwise specified in these General Terms, all notices related to these General Terms will be sent in writing to the addresses set forth in the applicable Order, or to such other address as may be specified by either party to the other party, and will be effective upon (i) personal delivery, (ii) the second business day after mailing, or (iii), except for notices of termination or an indemnifiable claim ("Legal Notices"), which shall clearly be identifiable as Legal Notices, the day of sending by email. Billing-related notices to Customer will

be addressed to the relevant billing contact designated by Customer. All other notices to Customer will be addressed to the relevant system administrator designated by Customer.

D. **\*\*Assignment.\*\*** Neither party may assign, delegate, or transfer these General Terms, in whole or in part, by agreement, operation of law or otherwise without the prior written consent of the other party, however Splunk may assign these General Terms in whole or in part to an Affiliate or in connection with an internal reorganization or a merger, acquisition, or sale of all or substantially all of Splunk's assets to which these General Terms relate. Any attempt to assign these General Terms other than as permitted herein will be null and void. Subject to the foregoing, these General Terms will bind and inure to the benefit of the parties permitted successors and assigns.

E. **\*\*U.S. Government Use Terms.\*\*** Splunk provides Offerings for U.S. federal government end use solely in accordance with the following: Government technical data and rights related to Offerings include only those rights customarily provided to the public as defined in these General Terms. This customary commercial license is provided in accordance with FAR 12.211 (Technical Data) and FAR 12.212 (Computer Software) and, for Department of Defense transactions, DFARS 252.227-7015 (Technical Data Commercial Items) and DFARS 227.7202-3 (Rights in Commercial Computer Software or Commercial Computer Software Documentation). If a government agency has a need for rights not conveyed under these terms, it must negotiate with Splunk to determine if there are acceptable terms for transferring such rights, and a mutually acceptable written addendum specifically conveying such rights must be included in any applicable contract or agreement.

F. **\*\*Waiver; Severability.\*\*** The waiver by either party of a breach of or a default under these General Terms will not be effective unless in writing. The failure by either party to enforce any provisions of these General Terms will not constitute a waiver of any other right hereunder or of any subsequent enforcement of that or any other provisions. If a court of competent jurisdiction holds any provision of these General Terms invalid or unenforceable, the remaining provisions of these General Terms will remain in full force and effect, and the provision affected will be construed so as to be enforceable to the maximum extent permissible by law.

G. **\*\*Integration; Entire Agreement.\*\*** These General Terms along with any additional terms incorporated herein by reference, constitute the complete and exclusive understanding and agreement between the parties and supersedes any and all prior or contemporaneous agreements, communications and understandings, written or oral, relating to their subject matter. Except as otherwise expressly set forth herein, any waiver, modification, or amendment of any provision of these General Terms will be effective only if in writing and signed by duly authorized representatives of both parties.

H. **\*\*Force Majeure.\*\*** Neither party or its Affiliates, subsidiaries, officers, directors, employees, agents, partners and licensors will (except for the obligation to make any payments) be liable for any delay or failure to perform any obligation under these General Terms where the delay or failure results from any cause beyond their reasonable control, including, without limitation, acts of God, labor disputes or other industrial disturbances, electrical, telecommunications, or other utility failures, earthquake, storms or other elements of nature, blockades, embargoes, riots, acts or orders of government, acts of terrorism, or war.

I. **\*\*Independent Contractors; No Third-Party Beneficiaries.\*\*** The parties are independent contractors. These General Terms do not create a partnership, franchise, joint venture, agency, fiduciary, or employment relationship between the parties. There are no third-party beneficiaries of these General Terms. Neither party has the authority to bind or act on behalf of the other party in any capacity or circumstance whether by

contract or otherwise.

## **## \*\*General Terms Definitions Exhibit\*\***

&quot;\*\*Affiliates\*\*&quot; means a corporation, partnership or other entity controlling, controlled by or under common control with such party, but only so long as such control continues to exist. For purposes of this definition, &quot;control\*\*&quot; means ownership, directly or indirectly, of greater than fifty percent (50%) of the voting rights in such entity (or, in the case of a noncorporate entity, equivalent rights).

&quot;\*\*Capacity\*\*&quot; means the measurement of usage of an Offering (e.g., aggregate daily volume of data indexed, specific source type rights, number of search and compute units, number of monitored accounts, virtual CPUs, user seats, use cases, storage capacity, etc.) that is purchased for an Offering, as set forth in the applicable Order. The Capacities for each of our Offerings can be found here: [https://www.splunk.com/en\\_us/legal/licensed-capacity.html](https://www.splunk.com/en_us/legal/licensed-capacity.html).

&quot;\*\*CCPA\*\*&quot; means the California Consumer Privacy Act of 2018.

&quot;\*\*Confidential Information\*\*&quot; means all nonpublic information disclosed by a party (&quot;\*\*Disclosing Party\*\*&quot;) to the other party (&quot;\*\*Receiving Party\*\*&quot;), whether orally or in writing, that is designated as &quot;confidential&quot; or that, given the nature of the information or circumstances surrounding its disclosure, should reasonably be understood to be confidential. Notwithstanding the foregoing, &quot;Confidential Information&quot; does not include any information that: (i) is or becomes generally known to the public without breach of any obligation owed to the Disclosing Party, (ii) was known to the Receiving Party prior to its disclosure by the Disclosing Party without breach of any obligation owed to the Disclosing Party, (iii) is received from a third party without breach of any obligation owed to the Disclosing Party, or (iv) was independently developed by the Receiving Party.

&quot;\*\*Content Subscription\*\*&quot;

means the right of Customer to receive content applicable to an Offering (e.g., models, templates, searches, playbooks, rules and configurations, as described in the relevant Documentation) on a periodic basis over the applicable Term. Content Subscriptions are purchased as an add-on service and are identified in an Order.

&quot;\*\*Customer Content\*\*&quot; means any data that is ingested by or on behalf of you into an Offering from your internal data sources.

&quot;\*\*Delivery\*\*&quot; means the date of Splunk's initial delivery of the license key for the applicable Offering or, for Hosted Services, the date Splunk makes the applicable Offering available to you for access and use.

&quot;\*\*Digital Marketplace\*\*&quot; means an online or electronic marketplace operated or controlled by a third party where Splunk has authorized the marketing and distribution of its Offerings.

&quot;\*\*Documentation\*\*&quot; means the online user guides, documentation and help and training materials published on Splunk's website (such as at <https://docs.splunk.com/Documentation>) or accessible through the applicable Offering, as may be updated by Splunk from time to time.

&quot;\*\*Enhancements\*\*&quot; means any updates, upgrades, releases, fixes, enhancements, or modifications to a

Purchased Offering made generally commercially available by Splunk to its customers under the terms and conditions in the Support Exhibit.

"\*\*Extension\*\*" means any separately downloadable or accessible suite, configuration file, add-on, technical add-on, plug-in, example module, command, function, playbook, content or application that extends the features or functionality of the applicable Offering.

"\*\*Fees\*\*" means the fees that are applicable to an Offering, as identified in the Order.

"\*\*GDPR\*\*" means the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data) as updated, amended or replaced from time to time.

"\*\*HIPAA\*\*" means the Health Insurance Portability and Accountability Act of 1996, as amended, and supplemented by the Health Information Technology for Economic and Clinical Health Act.

"\*\*Hosted Service\*\*" means a technology service hosted by or on behalf of Splunk and provided to you.

"\*\*Internal Business Purpose\*\*" means your use of an Offering for your own internal business operations, based on the analysis, monitoring or processing of your data from your systems, networks, and devices. Accordingly, Internal Business Purpose does not include monitoring or servicing the systems, networks and devices of third parties.

"\*\*ITAR Data\*\*" means information protected by the International Traffic in Arms Regulations.

"\*\*Nonprofit\*\*" means a U.S. Federal 501(c)(3), tax-exempt, nonprofit corporation or association (or other nonprofit entity organized in accordance with the laws of where your nonprofit entity is registered) that has qualified for a free, donated Offering in connection with a Splunk donation program.

"\*\*Offerings\*\*" means the products, services, and other offerings that Splunk makes generally available, including without limitation On-Premises Products, Hosted Services, Support Programs, Content Subscriptions and Configuration and Implementation Services.

"\*\*On-Premise Product\*\*" means the Splunk software that is delivered to you and deployed and operated by you or on your behalf on hardware designated by you, and any Enhancements made available to you by Splunk.

"\*\*Open Source Software\*\*" means software that is licensed under a license approved by the Open Source Initiative or similar freeware license, with terms requiring that such software code be (i) disclosed or distributed in source code or object code form, (ii) licensed for the purpose of making derivative works, and/or (iii) redistributed under the same license terms.

"\*\*Orders\*\*" means Splunk's quote or ordering document (including online order form) accepted by you via your purchase order or other ordering document submitted to Splunk (directly or indirectly through an authorized reseller or Digital Marketplace) to order Offerings, which references the Offering, Capacity, pricing and other applicable terms set forth in an applicable Splunk quote or ordering document. Orders do not include the terms

of any preprinted terms on your purchase order or other terms on a purchase order that are additional or inconsistent with the terms of these General Terms.

"\*\*PCI Data\*\*" means credit card information within the scope of the Payment Card Industry Data Security Standard.

"\*\*PHI Data\*\*" means any protected health data, as defined under HIPAA.

"\*\*Purchased Offerings\*\*" means the services, subscriptions and licenses to Offerings that are acquired by you under Orders, whether directly or through an authorized reseller or Digital Marketplace.

"\*\*Service Level Schedule\*\*" means a Splunk policy that applies to the availability and uptime of a Hosted Service and which, if applicable, offers service credits as set forth therein.

"\*\*Splunkbase\*\*" means Splunk's online directory of or platform for Extensions, currently located at <https://splunkbase.splunk.com> and any and all successors, replacements, new versions, derivatives, updates and upgrades and any other similar platform(s) owned and/or controlled by Splunk.

"\*\*Splunk Developer Tool\*\*" means the standard application programming interface, configurations, software development kits, libraries, command line interface tools, other tooling (including scaffolding and data generation tools), integrated development environment plug-ins or extensions, code examples, tutorials, reference guides and other related materials identified and provided by Splunk to facilitate or enable the creation of Extensions or otherwise support interoperability between the software and your system or environment.

"\*\*Splunk Extensions\*\*" means Extensions made available through Splunkbase that are identified on Splunkbase as built by Splunk (and not by any third party).

"Support Programs" are the Support Programs offered by Splunk and identified here: [https://www.splunk.com/en\\_us/customer-success/support-programs.html](https://www.splunk.com/en_us/customer-success/support-programs.html)

"\*\*Term\*\*" means the duration of your subscription or license to the applicable Offering that starts and ends on the date listed on the applicable Order. If no start date is specified in an Order, the start date will be the Delivery date of the Offering.

"\*\*Third Party Content\*\*" means information, data, technology, or materials made available to you by any third party that you license and add to a Hosted Service or direct Splunk to install in connection with a Hosted Service. Third-Party Content includes but is not limited to, Third-Party Extensions, web-based or offline software applications, data service or content that are provided by third parties.

"\*\*Usage Data\*\*" means data generated from the usage, configuration, deployment, access, and performance of an Offering. For example, this may include such things as information about your operating environment, such as your network and systems architecture, or sessions, such as page loads and session views, duration, or interactions, errors, number of searches, source types and format (e.g., json, xml, csv), ingest volume, number of active and licensed users, or search concurrency. Usage Data does not include Customer Content.

## \*\*Support Exhibit to Splunk General Terms\*\*

This Support Exhibit forms a part of the Splunk General Terms and governs your purchase, and Splunk's provision of Support Services.

1. **Support Programs**

Support Programs purchased as part of a Purchased Offering will be identified in your applicable Order. Splunk will provide you the level of Support Services described under the purchased Support Program, subject to your payment of applicable Fees. "Support Programs" are the Support Programs offered by Splunk and identified here: [https://www.splunk.com/en\\_us/customer-success/support-programs.html](https://www.splunk.com/en_us/customer-success/support-programs.html).

2. **Support Services**

"Support Services" include technical support for your Purchased Offerings, and, when available, the provision of Enhancements for your Purchased Offerings, subject to the Support Policy described below. Technical support under a Support Program is available via web portal, and certain Support Programs also make support available via telephone. Support Services will be delivered by a member of Splunk's technical support team during the regional hours of operation applicable under the Support Program. Support Services are delivered in English unless you are in a location where we have made localized Support Services available.

3. **Support Policy**

Our Support Policy, provided here: [https://www.splunk.com/en\\_us/legal/splunk-software-support-policy.html](https://www.splunk.com/en_us/legal/splunk-software-support-policy.html) ("Support Policy") describes the duration of our Support Services for certain Splunk On-Premises Products and other policies associated with our Support Services.

As we release new versions for our Offerings, we discontinue Support Services for certain older versions. Our Support Policy sets forth the schedule for the duration of support, and end of support, for Offering versions. The current versions of our Offerings that are supported under our Support Policy and will be our "Supported Versions" herein. The Support Policy may not apply to Hosted Services, and the product and services version we make available as our Hosted Services will be deemed Supported Versions herein.

4. **Case Priority**

Each Support Program offers different support levels for your case priority levels. When submitting a case, you will select the priority for initial response by logging the case online, in accordance with the priority guidelines set forth under your Support Program. When the case is received, we may in good faith change the priority if the issue does not conform to the criteria for the selected priority. When that happens, we will provide you with notice (electronic or otherwise) of such change.

5. **Exclusions**

We will have no obligation to provide support for issues caused by any of the following (each, a "Customer Generated Error"): (i) modifications to an Offering not made by Splunk; (ii) use of an Offering other than as authorized in the General Terms or as provided in the applicable Documentation; (iii) damage to the machine on which an On-Premises Product is installed; (iv) use of a version of an Offering other than the

Supported Version; (v) third-party products that are not expressly noted in the Documentation as supported by Splunk; or (vi) conflicts related to replacing or installing hardware, drivers, and software that are not expressly supported by Splunk and described in the applicable Documentation. If we determine that support requested by you is for an issue caused by a Customer Generated Error, we will notify you of that fact as soon as reasonably possible under the circumstances. If you agree that we should provide support for the Customer Generated Error via a confirming email, then we will have the right to invoice you at our then-current time and materials rates for any such support provided by us.

#### 6. **\*\*Support for Splunk Extensions\*\***

Only Splunk Extensions that are labeled as "**\*\*Splunk Supported\*\***" on Splunkbase, or other Splunk-branded marketplace, are eligible for support, and this support is limited. For those labeled Splunk Supported, we will provide an initial response and acknowledgement in accordance with the P3 terms that are applicable in the applicable Support Program, and Enhancements may be made available.

No other terms of a Support Program will apply to a Splunk Application. For those labeled as "**\*\*Not Supported\*\***", Splunk will have no support obligations.

#### 7. **\*\*Authorized Support Contacts\*\***

You are entitled to have a certain number of Support Contacts under each Support Program. "**\*\*Support Contacts\*\***" means the individual(s) specified by you that are authorized to submit support cases.

The number of Support Contacts will be based on the Capacity of the Offering purchased, and the applicable Support Program. The number of Support Contacts will be set forth in customers entitlement information on the Splunk support portal.

We only take support requests from, and communicate with, your Support Contacts in connection with support cases. We strongly recommend that your Support Contact(s) are trained on the applicable Offering. In order to designate Support Contacts, you must provide the individuals primary email address and Splunk.com login ID.

#### 8.

##### **\*\*Defect Resolution\*\***

Should we determine that an Offering has a defect, we will, at our sole option, repair the defect in the version of the Offering that you are then currently using or instruct you to install a newer version of the Offering with that defect repaired. We reserve the right to provide you with a workaround in lieu of fixing a defect should we in our sole judgment determine that it is more effective to do so.

#### 9. **\*\*Your Assistance\*\***

Should you report a purported defect or error in an Offering, we may require you to provide us with the following information: (a) a general description of your operating environment; (b) a list of all hardware components, operating systems and networks; (c) a reproducible test case; and (d) any log files, trace and systems files. Your failure to provide this information may prevent us from identifying and fixing that purported defect.

#### 10. **\*\*Changes to Support Programs\*\***

You acknowledge that, subject to the Support Policy, and

subject to any commitment we have during the Term, we have the right to discontinue the manufacture, development, sale or support of any Offering, at any time, in our sole discretion. We further reserve the right to alter Support Programs from time to time, using reasonable discretion, but in no event will such alterations, during the Term of any Order, result in diminished Support Services from the level of your applicable purchased Support Program.

### ### \*\*Configuration and Implementation Services Exhibit to Splunk General Terms\*\*

This Configuration and Implementation Services Exhibit forms a part of the Splunk General Terms and governs your purchase, and Splunk's provision of Configuration and Implementation Services.

**\*\*Capitalized terms below are defined in the General Terms, this Exhibit or in the Definition Exhibit attached to this Exhibit.\*\***

#### 1. **\*\*Services and Statements of Work\*\***

We will perform the C&I Services for you that are set forth in the applicable Statements of Work. You will pay the Fees under each Statement of Work in accordance with these General Terms, or otherwise as we may expressly agree in the applicable Statement of Work.

In each Statement of Work, we will designate our primary point of contact for you for all matters relating to the applicable C&I Services (which we may change from time to time upon notice).

#### 2. **\*\*Our Personnel\*\***

A. **\*\*Qualifications.\*\*** The Personnel we assign to perform the C&I Services will be qualified, skilled, experienced and otherwise fit for the performance of the C&I Services. If you, in your reasonable judgement, determine that Personnel assigned to your project are unfit, we will in good faith discuss alternatives, and we will replace Personnel as reasonably necessary. You acknowledge that any replacement may cause delay in the performance of the C&I Services.

B. **\*\*Personnel Conduct.\*\*** Our Personnel are subject to our Splunk Code of Conduct and Ethics [here]([https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?\\_ga=2.200727335.82146825.1675981089-269939538.1673288458&\\_gac=1.188710106.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ\\_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw\\_wcB&gl=1\\*1m2mlyb\\*\\_ga\\*MjY5OTM5NTM4LjE2NzMyODg0NTg.\\*\\_ga\\_5EPM2P39FV\\*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w](https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?_ga=2.200727335.82146825.1675981089-269939538.1673288458&_gac=1.188710106.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw_wcB&gl=1*1m2mlyb*_ga*MjY5OTM5NTM4LjE2NzMyODg0NTg.*_ga_5EPM2P39FV*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w)), which includes, without limitation, an obligation to comply with our policies on protecting customer information, prohibitions on illegal drugs and any impaired job performance, avoiding conflicts of interest, and acting ethically at all times. We also background check our employees, per the Section below.

C. **\*\*Use of Subcontractors.\*\*** We reserve the right to use subcontractors in performance of the C&I Services, provided: (a) any subcontractor we use meets the requirements herein and conditions of these General Terms and the Statement of Work; (b) we will be responsible for the subcontractors compliance with the terms herein and the Statement of Work; and

(c) upon your request or inquiry, we will identify any subcontractor that we are using, or plan to use, for C&I Services, and will cooperate in good faith to provide you with all relevant information regarding such



subcontractors.

D. **\*\*No Employee Benefits.\*\*** We acknowledge and agree that our Personnel are not eligible for or entitled to receive any compensation, benefits, or other incidents of employment that you make available to your employees. We are solely responsible for all employment related taxes, expenses, withholdings, and other similar statutory obligations arising out of the relationship between us and our Personnel and the performance of C&I Services by such Personnel.

### 3. **\*\*Our Background Checks, Security and Compliance Obligations\*\***

A. **\*\*Compliance with Your Security Program.\*\*** While on your premises, our Personnel will comply with your security practices and procedures generally prescribed by you for onsite visitors and service providers. However, any requirement that is in addition to the compliance requirements set forth in this Schedule (e.g., background checks that are different from the background checks described herein) must be expressly set forth in a Statement of Work. We agree to discuss in good faith any condition or requirement you may have for our Personnel that are different from standard policies, however any additional requirement may delay C&I Services and must be vetted and implemented by mutual agreement of the parties and expressly set forth in a Statement of Work. Splunk does not guarantee that it will be able to meet any additional requested requirements.

B. **\*\*Our Security Practices.\*\*** We implement and follow an enterprise security program, with the policies, plans, and procedures set forth here [[www.splunk.com/prof-serv-isa](http://www.splunk.com/prof-serv-isa)]([www.splunk.com/prof-serv-isa](http://www.splunk.com/prof-serv-isa)). Our Personnel will be subject to the data protection and confidentiality obligations set forth in these General Terms with respect to any of your data that we may have access to in connection with the C&I Services.

C. **\*\*Background Checks.\*\*** For U.S.-based projects, we will not assign an employee to perform C&I Services under a Statement of Work unless we have run the following background check on the employee: Criminal Felony & Misdemeanor; SSN Validation; Federal Criminal; SSN Trace; Employment Report Three (3) Employers; Education Report One (1) Institution; Global Sanctions & Enforcement; Prohibited Parties; Widescreen Plus National Criminal Search.

D. **\*\*Permissions for Access.\*\*** In the event you require any Personnel to sign any waivers, releases, or other documents as a condition to gain access to your premises for performance of the C&I Services (“**\*\*Access Documents\*\***”), you agree: (a) that Personnel who will be required to sign Access Documents will sign on behalf of Splunk; (b) that any additional or conflicting terms in Access Documents with these General Terms will have no effect; and (c) you will pursue any claims for breach of any terms in the Access Documents against Splunk and not the individual signing.

### 4. **\*\*Your Materials\*\***

We will have no rights in or to any Customer Materials, however you grant us the right to use Customer Materials in order to provide the C&I Services. Nothing in these General Terms will be deemed to transfer to us any ownership of Customer Materials.

### 5. **\*\*C&I Services Materials and Customizations Unique to You\*\***

A. **\*\*C&I Services Materials.\*\*** The C&I Services we perform (e.g., configuration of our Offerings), and the C&I

Services Materials we offer, create, and deliver to you in connection with the C&I Services, are generally applicable to our business, and therefore we require the right to be able to re-use the C&I Services Materials we create for one customer in connection with all of our customers. For the avoidance of doubt, our use of the C&I Services Materials created for you in connection with C&I Services will comply with our ongoing obligations and restrictions with respect to your Customer Materials and your Confidential Information, and we will not identify you in any way in connection with our further use of such C&I Services Materials.

B. **\*\*Customer Owned Work Product.\*\*** However, in the unlikely event that the parties agree that C&I Services Materials for a project are custom work product unique to your business, and not applicable to other customers generally, we will transfer ownership to those agreed C&I Services Materials to you under the applicable Statement of Work. C&I Services Materials must be expressly identified as “**\*\*Customer Owned Work Product\*\***” under a Statement of Work for ownership to pass to you. Subject to payment of applicable Fees under the Statement of Work, we hereby assign to you all rights, title and interest (including all Intellectual Property Rights therein) in and to all C&I Services Materials identified as Customer Owned Work Product (but excluding all Splunk Preexisting IP incorporated into the Customer Owned Work Product). At your request and expense, we will assist and cooperate with you in all reasonable respects and will execute documents and take such further acts reasonably requested by you to enable you to acquire, transfer, maintain, perfect, and enforce your ownership rights in such Customer Owned Work Product.

C. **\*\*Our Ownership.\*\*** Subject to your ownership rights in Customer Owned Work Product and Customer Materials, we will own all rights in and to all C&I Services Materials.

D. **\*\*License Rights.\*\*** For those C&I Services Materials that are not Customer Owned Work Product, you will have the right to access and use those C&I Services Materials in connection with your applicable Offerings, and those rights will be of the same scope and duration as your rights to the underlying Offering.

## 6. **\*\*C&I Services Warranty\*\***

We warrant that the C&I Services will be performed in a good and workmanlike manner consistent with applicable industry standards. This warranty will be in effect for a period of thirty (30) days from the completion of any C&I Services. As your sole and exclusive remedy and our entire liability for any breach of the foregoing warranty, we will, at our option and expense, promptly re-perform any C&I Services that fail to meet this warranty or refund to you the fees paid for the non-conforming C&I Services.

## 7. **\*\*Your Cooperation\*\***

You acknowledge that your timely provision of (and our access to) your facilities, equipment, assistance, cooperation, data, information and materials from your officers, agents, and employees (the “**\*\*Cooperation\*\***”) is essential to Splunk's performance of the C&I Services. We will not be liable for any delay or deficiency in performing the C&I Services if you do not provide the necessary Cooperation. As part of the Cooperation, you will (1) designate a project manager or technical lead to liaise with us while we perform the C&I Services; (2) allocate and engage additional resources as may be required to assist us in performing the C&I Services; and (3) making available to us any data, information and any other materials reasonably required by us to perform the C&I Services, including any data, information or materials specifically identified in the Statement of Work.

## 8. **\*\*Insurance\*\***

Throughout any period of C&I Services we perform for you, we will maintain insurance policies in the types and amounts described below at our own expense:

- Commercial General Liability Insurance with a limit of not less than \$1,000,000 per occurrence and a general aggregate limit of not less than \$2,000,000.
- Business Auto Insurance with a limit of not less than \$1,000,000 combined single limit. Such Insurance will cover liability arising out of "hired and non-owned" automobiles.
- Workers Compensation Insurance as required by workers compensation, occupational disease and occupational health and safety laws, statutes, and regulations.
- Technology Errors & Omissions Insurance with a limit of not less than \$3,000,000 per occurrence and general aggregate.
- Umbrella/Excess Insurance with a limit of not less than \$3,000,000 per occurrence and general aggregate.

## 9. **\*\*Change Order Process\*\***

You may submit written requests to us to change the scope of C&I Services described in a Statement of Work (each such request, a "Change Order Request"). If we elect to consider a Change Order Request, then we will promptly notify you if we believe that the Change Order Request requires an adjustment to the fees or to the schedule for the performance of the C&I Services. In such event, the parties will negotiate in good faith a reasonable and equitable adjustment to the fees and/or schedule, as applicable. We will continue to perform C&I Services pursuant to the existing Statement of Work and will have no obligation to perform any Change Order Request unless and until the parties have agreed in writing to such an equitable adjustment.

## 10. **\*\*Expenses\*\***

Unless otherwise specified in the Statement of Work, we will not charge you for our expenses we incur in connection with a Statement of Work. Our daily C&I Services rates are inclusive of any expenses. In the event the parties agree that expenses are reimbursable under a Statement of Work, we will mutually agree on any travel policy and any required documentation for reimbursement.

## 11. **\*\*Prepaid C&I Services\*\***

Unless otherwise expressly stated in a Statement of Work, all prepaid C&I Services must be redeemed within twelve (12) months from the date of purchase/invoice. At the end of the twelve (12) month term, any remaining pre-paid unused C&I Services will expire; no refunds will be provided for any remaining pre-paid unused C&I Services. Unless otherwise specifically stated in a Statement of Work, Education is invoiced and payable in advance.

### **\*\*Configuration and Implementation Services Definitions Exhibit\*\***

"C&I

Services\*\*&quot; means the services outlined in the Statement of Work.

&quot;\*\*C&I Services Materials\*\*&quot; means the materials and other deliverables that are provided to you as part of the C&I Services, and any materials, technology, know-how and other innovations of any kind that we or our Personnel may create or reduce to practice in the course of performing the C&I Services, including without limitation all improvements or modifications to our proprietary technology, and all Intellectual Property Rights therein.

&quot;\*\*Customer Materials\*\*&quot; means the data, information, and materials you provide to us in connection with your use of the C&I Services.

&quot;\*\*Fees\*\*&quot; means the fees that are applicable to the C&I Services, as identified in the Statement of Work.

&quot;\*\*Intellectual Property Rights\*\*&quot; means all worldwide intellectual property rights, including copyrights and other rights in works of authorship; rights in trademarks, trade names, and other designations of source or origin; rights in trade secrets and confidential information; and patents and patent applications.

&quot;\*\*Personnel\*\*&quot; means any employee, consultant, contractor, or subcontractor of Splunk.

&quot;\*\*Splunk Preexisting IP\*\*&quot; means, with respect to any C&I Services Materials, all associated Splunk technology and all Intellectual Property Rights created or acquired: (a) prior to the date of the Statement of Work that includes such C&I Services Materials, or (b) after the date of such Statement of Work but independently of the C&I Services provided under such Statement of Work.

&quot;\*\*Statement of Work\*\*&quot; means the statements of work and/or any and all applicable Orders, that describe the specific services to be performed by Splunk, including any materials and deliverables to be delivered by Splunk.

UNRECOGNIZED LICENSE; MD5 sum: 309a3d293251bf7ee7ab536090563bf9

## 1.100 sys

fe16172d1123f5350a8c5585395465de6866de4

## C

### 1.100.1 Available under license :

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## 1.101 sync

913fb63af28f446cd10c684ee847b5606cf328f7

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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.

## 1.102 snappy

544b4180ac705b7605231d4a4550a1acb22a19f

e

### 1.102.1 Available under license :

```
This is the official list of people who can contribute
(and typically have contributed) code to the Snappy-Go repository.
The AUTHORS file lists the copyright holders; this file
lists people. For example, Google employees are listed here
but not in AUTHORS, because Google holds the copyright.
#
The submission process automatically checks to make sure
that people submitting code are listed in this file (by email address).
#
Names should be added to this file only after verifying that
the individual or the individual's organization has agreed to
the appropriate Contributor License Agreement, found here:
#
http://code.google.com/legal/individual-cla-v1.0.html
http://code.google.com/legal/corporate-cla-v1.0.html
#
The agreement for individuals can be filled out on the web.
#
When adding J Random Contributor's name to this file,
either J's name or J's organization's name should be
added to the AUTHORS file, depending on whether the
individual or corporate
CLA was used.

Names should be added to this file like so:
Name <email address>

Please keep the list sorted.

Alex Legg <alexlegg@google.com>
Damian Gryski <dgryski@gmail.com>
Eric Buth <eric@topos.com>
```

Jan Mercl <0xjnm1@gmail.com>  
Jonathan Swinney <jswinney@amazon.com>  
Kai Backman <kaib@golang.org>  
Klaus Post <klauspost@gmail.com>  
Marc-Antoine Ruel <maruel@chromium.org>  
Nigel Tao <nigeltao@golang.org>  
Rob Pike <r@golang.org>  
Rodolfo Carvalho <rhcarvalho@gmail.com>  
Russ Cox <rsc@golang.org>  
Sebastien Binet <seb.binet@gmail.com>  
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## 1.103 @splunk/visualization-context 25.13.1

### 1.103.1 Available under license :

# \*\*SPLUNK GENERAL TERMS\*\*

Last Updated: February 10, 2023

These Splunk General Terms ("General Terms") between Splunk Inc., a Delaware corporation, with its

principal place of business at 270 Brannan Street, San Francisco, California 94107, U.S.A (&quot;Splunk&quot; or &quot;we&quot; or &quot;us&quot; or &quot;our&quot;,) and you (&quot;Customer&quot; or &quot;you&quot; or &quot;your&quot;,) apply to the purchase of licenses and subscriptions for Splunk Offerings. By clicking on the appropriate button, or by downloading, installing, accessing or using the Offerings, you agree to these General Terms. If you are entering into these General Terms on behalf of Customer, you represent that you have the authority to bind Customer. If you do not agree to these General Terms, or if you are not authorized to accept the General Terms on behalf of the Customer, do not download, install, access, or use any of the Offerings.

**\*\*See the General Terms Definitions Exhibit attached for definitions of capitalized terms not defined herein.\*\***

#### **#### \*\*1. License Rights\*\***

A. **\*\*General Rights.\*\*** You have the nonexclusive, worldwide, nontransferable and nonsublicensable right, subject to payment of applicable Fees and compliance with the terms of these General Terms, to use your Purchased Offerings for your Internal Business Purposes during the Term and up to the Capacity purchased.

B. **\*\*Copies for On-Premise Products.\*\*** You have the right to make a reasonable number of copies of On-Premises Products for archival and back-up purposes.

C. **\*\*Splunk Extensions.\*\*** You may use Splunk Extensions solely in connection with the applicable Purchased Offering subject to the same terms and conditions for that Offering (including with respect to Term) and payment of any Fees associated with the Splunk Extensions. Some Splunk Extensions may be made available under license terms that provide broader rights than the license rights you have to the applicable underlying Offering (e.g., if the Extension is Open Source Software). These broader rights will apply to that Splunk Extension. Splunk Extensions may be installed on Hosted Services pursuant to our instructions.

D. **\*\*Trials, Evaluations, Beta and Free Licenses.\*\***

<ol type="i">

<li><b>Trials and Evaluations.</b> Offerings provided for trials and evaluations are provided at no charge, and their use will be for a limited duration.</li>

<li><b>Beta Licenses.</b> Some Offerings and features may be available to you as a preview, or as an alpha, beta or other pre-release version (each, a "<b>Beta Offering</b>"). All rights for Beta Offerings are solely for internal testing and evaluation. Your use of a Beta Offering will be for the term specified by us, and if no term is specified, then for the earlier of one year from the start date of the Beta Offering or when that version of the Beta Offering becomes generally available. We may discontinue the Beta Offering at any time and may decide not to make any of the features and

functionality generally available.</li>

<li><b>Free Licenses.</b> From time to time, we may make certain Offerings available for full use (i.e., not subject to limited evaluation purposes) at no charge. These free Offerings may have limited features, functions, and other technical limitations.</li>

<li><b>Donated Offerings.</b> Donated Offerings are free limited Offerings donated to qualifying Nonprofits under a Splunk donation program. By procuring and making use of a Donated Offering, you hereby represent and warrant that you are a lawfully organized Nonprofit, and you agree to provide verification of your nonprofit status to Splunk upon request. At Splunk's request, you agree: (a) to publish a press release and case study on your use of the Donated Offering; and (b) to be interviewed for the production of a Splunk customer video that will accompany the press release and case study. Splunk will draft and edit all content in collaboration with you and will obtain your



edits and

written approval (email is sufficient) prior to publication, and such approval will not be unreasonably withheld. You will allow Splunk to reference your Nonprofit and leading spokespeople in press releases with your written approval (email is sufficient). Splunk may use your name and logo on sales presentations, websites, and other marketing collateral without your prior approval.

**Test and Development Licenses.** For Offerings identified as "Test and Development"

Offerings on your Order, you only have the right to use those Offerings up to the applicable Capacity on a non-production system for non-production uses, including product migration testing or pre-production staging, or testing new data sources, types, or use cases. Test and Development Offerings may not be used for any revenue generation, commercial activity, or other productive business or purpose.

**Limitations.** Notwithstanding anything to the contrary in these General Terms, we do not provide maintenance and support, warranties, service level commitments, or indemnification for Test and Development Offerings, trials, evaluations, or free or Beta Offerings.

## \*\*\*\* \*\*2. Purchasing Through Authorized Resellers, Digital Marketplaces, and Splunk Affiliates\*\*

A. **Authorized Resellers and Digital Marketplaces.** If you purchase Offerings through a Splunk authorized reseller or Digital Marketplace, these General Terms will govern those Offerings. Your payment obligations for the Purchased Offerings will be with the authorized reseller or Digital Marketplace, as applicable, not Splunk. You will have no direct Fee payment obligations to Splunk for those Offerings. However, in the event that you fail to pay the Digital Marketplace for your Purchased Offerings, Splunk retains the right to enforce your payment obligations and collect directly from you.

Any terms agreed to between you and the authorized reseller that are in addition to these General Terms are solely between

you and the authorized reseller and Digital Marketplace, as applicable. No agreement between you and an authorized reseller or Digital Marketplace is binding on Splunk or will have any force or effect with respect to the rights in, or the operation, use or provision of, the Offerings.

B. **Splunk Affiliate Distributors.** Splunk has appointed certain Splunk Affiliates as its non-exclusive distributors of the Offerings (each, a "Splunk Affiliate Distributor"). Each Splunk Affiliate Distributor is authorized by Splunk to negotiate and enter into Orders with Customers. Where a purchase from Splunk is offered by a Splunk Affiliate Distributor, Customer will issue Orders, and make payments, to the Splunk Affiliate Distributor which issued the quote for the Offering. Each Order will be deemed a separate contract between Customer and the relevant Splunk Affiliate Distributor and will be subject to these General Terms. For the avoidance of doubt, Customer agrees that: (i)

the total liability of Splunk under these General Terms as set forth in Section 22 (Limitation of Liability) states the overall combined liability of Splunk and Splunk Affiliate Distributors; (ii) the entering into Orders by a Splunk Affiliate Distributor will not be deemed to expand Splunk and its Affiliates overall responsibilities or liability under these General Terms; and (iii) Customer will have no right to recover more than once from the same event.

## \*\*\*\* \*\*3. Your Contractors and Third-Party Providers\*\*

You may permit your authorized consultants, contractors, and agents ("Third-Party Providers") to access and use your Purchased Offerings, but only on your behalf in connection with providing services to you, and subject to the terms and conditions of these General Terms. Any access or use by a Third-Party Provider will be subject to the same limitations and restrictions that apply to you under these General Terms, and you will be

responsible for any Third-Party Providers

actions relating to their use of the Offering. The aggregate use by you and all of your Third-Party Providers must not exceed the Capacity purchased, and nothing in this Section is intended to or will be deemed to increase such Capacity.

#### #### \*\*4. Hosted Services and Specific Offering Terms\*\*

A. **\*\*Service Levels.\*\*** When you purchase Hosted Services as a Purchased Offering, we will make the applicable Hosted Services available to you during the Term in accordance with these General Terms. The Service Level Schedules (as identified in the Specific Offering Terms referenced in Section 4(F) below) and associated remedies will apply to the availability and uptime of the applicable Hosted Service. If applicable, service credits will be available for downtime in accordance with the Service Level Schedule.

B. **\*\*Connections.\*\*** You are responsible for obtaining and maintaining all telecommunications, broadband and computer equipment and services needed to access and use Hosted Services, and for paying all associated charges.

C. **\*\*Your Responsibility for Data Protection.\*\*** You are responsible for: (i) selecting from the security configurations and security options made available by Splunk in connection with a Hosted Service; (ii) taking additional measures outside of the Hosted Service to the extent the Hosted Service Offering does not provide the controls that may be required or desired by you; and (iii) routine archiving and backing up of Customer Content. You agree to notify Splunk promptly if you believe that an unauthorized third party may be using your accounts or if your account information is lost or stolen.

D. **\*\*Refund Upon Termination for Splunk's Breach.\*\*** If a Hosted Service is terminated by you for Splunk's uncured material breach in accordance with these General Terms, Splunk will refund you any prepaid subscription fees covering the remainder of the Term after the effective date of termination.

E. **\*\*Return of Customer Content.\*\*** Customer Content may be retrieved by you and removed from the Hosted Services in accordance with the applicable Documentation. We will make the Customer Content available on the Hosted Services for thirty (30) days after termination of a subscription for your retrieval. After that thirty (30) day period, we will have no obligation to maintain the storage of your Customer Content, and you hereby authorize us thereafter to, and we will, unless legally prohibited, delete all remaining Customer Content. If you require assistance in connection with migration of your Customer Content, depending on the nature of the request, we may require a mutually agreed upon fee for assistance.

F. **\*\*Specific Offering Terms.\*\*** Specific security controls and certifications, data policies, service descriptions, Service Level Schedules and other terms specific to a Hosted Service and other Offerings ("Specific Offering Terms") are set forth here: [[www.splunk.com/SpecificTerms](http://www.splunk.com/SpecificTerms)]([www.splunk.com/SpecificTerms](http://www.splunk.com/SpecificTerms)), and will apply, and be deemed incorporated herein by reference.

#### #### \*\*5. Support and Maintenance\*\*

The specific Support Program included with a Purchased Offering will be identified in the applicable Order. Splunk will provide the purchased level of support and maintenance services in accordance with the terms of the Support Exhibit attached to these General Terms.

#### #### \*\*6. Configuration and Implementation Services\*\*

Splunk offers standard services to implement and configure your Purchased Offerings. These services are purchased under an Order and are subject to the payment of the Fees therein and the terms of the Configuration and Implementation Services Exhibit attached to these General Terms.

#### #### \*\*7. Data Protection for Personal Data\*\*

Splunk will follow globally recognized data protection principles and industry-leading standards for the security of personal data. Splunk will comply with the requirements and obligations set forth in Splunks Data Processing Addendum (&quot;\*\*DPA\*\*&quot;),

located at [https://www.splunk.com/en\\_us/legal/splunk-dpa.html](https://www.splunk.com/en_us/legal/splunk-dpa.html), which includes standard terms for the processing of personal data (including, as applicable, personal data in a Hosted Service).

#### #### \*\*8. Security\*\*

A. **\*\*Security for Hosted Services: Standard Environment.\*\*** Splunk will implement industry leading security safeguards for the protection of Customer Confidential Information, including Customer Content transferred to and stored within the Hosted Services. These safeguards include commercially reasonable administrative, technical, and organizational measures to protect Customer Content against destruction, loss, alteration, unauthorized disclosure, or unauthorized access, including such things as information security policies and procedures, security awareness training, threat and vulnerability management, incident response and breach notification, and vendor risk management. Splunks technical safeguards are further described in the Splunk Cloud Platform Security Addendum (&quot;\*\*SC-SA\*\*&quot;), located at [https://www.splunk.com/en\\_us/legal/splunk-cloud-security-addendum.html](https://www.splunk.com/en_us/legal/splunk-cloud-security-addendum.html), and the Observability Suite Security Addendum (&quot;\*\*OS-SA\*\*&quot;), located at [https://www.splunk.com/en\\_us/legal/splunk-observability-security-addendum.html](https://www.splunk.com/en_us/legal/splunk-observability-security-addendum.html), as applicable, and are incorporated herein by reference. Splunk may update the SC-SA and OS-SA from time to time provided, that updates will be subject to Section 24 below.

B. **\*\*Security for Hosted Services: Premium HIPAA Environment.\*\*** For Hosted Services Offerings provisioned in Splunk Cloud Platforms Premium HIPAA environment (as specified in an Order), in addition to the protections under the SC-SA and these General Terms, Splunk will comply with the requirements and obligations set forth in Splunk Business Associate Agreement found here: [https://www.splunk.com/en\\_us/legal/splunk-baa.html](https://www.splunk.com/en_us/legal/splunk-baa.html).

C. **\*\*Additional Security for Other Hosted Services.\*\*** From time to time, Splunk may offer custom security safeguards for unique Hosted Services offerings. Any such security safeguards will be as set forth in the applicable Documentation and Specific Offering Terms.

D. **\*\*Security for On Premises Offerings.\*\*** Splunk will implement industry leading security safeguards for the protection of Splunks IT systems, products, facilities and assets, and any Customer Confidential Information accessed or processed therein, e.g., customer account information, support tickets (&quot;\*\*Corporate Security Controls\*\*&quot;). Splunks Corporate Security Controls include such things as information security policies and procedures, security awareness training, physical and environmental access controls, threat and vulnerability management, incident response and breach notification, and vendor risk management. Splunks Corporate Security Controls are further described in Splunks Information Security Addendum (&quot;\*\*ISA\*\*&quot;), located at [https://www.splunk.com/en\\_us/legal/information-security-addendum.html](https://www.splunk.com/en_us/legal/information-security-addendum.html) and are incorporated

herein by reference.

E. **Product Development Security.** Splunk will follow secure software development practices and applies an industry standard, risk-based approach to its software development lifecycle (“SDLC”), which includes, as applicable, such things as performing security architecture reviews, open source security scans, virus detection, dynamic application security testing, network vulnerability scans and external penetration testing in the development environment. Product-specific information about the SDLC in our Offerings is detailed more fully in the ISA. Splunk’s Product Security Portal, located at [https://www.splunk.com/en\\_us/product-security.html](https://www.splunk.com/en_us/product-security.html), contains detailed information about Splunk’s program for managing and communicating product vulnerabilities. Splunk categorizes product vulnerabilities in accordance with the Common Vulnerability Scoring System (“Medium,” “High,” or “Critical”) and uses commercially reasonable efforts to remediate vulnerabilities depending on their severity level in accordance with industry standards.

F. **Maintaining Protections.** Notwithstanding anything to contrary in these General Terms, or any policy or terms referenced herein via hyperlink (or any update thereto), Splunk may not, during a Term materially diminish the security protections set forth in these General Terms, any Specific Offering Terms, or the applicable security addendum.

#### \*\*\*\* 9. Use Restrictions\*\*

Except as expressly permitted in an Order, these General Terms or our Documentation, you agree not to (nor allow any user or Third Party Provider to): (a) reverse engineer (except to the extent specifically permitted by statutory law), decompile, disassemble or otherwise attempt to discover source code or underlying structures, ideas or algorithms of any Offering; (b) modify, translate or create derivative works based on the Offerings; (c) use an Offering to ingest, monitor or analyze the machine, IT system or application data of any third party; (d) resell, transfer or distribute any Offering; (e) access or use any Offering in order to monitor its availability, performance, or functionality for competitive purposes; (f) attempt to disable or circumvent any license key or other technological mechanisms or measures intended to prevent, limit or control use or copying of, or access to, Offerings; (g) separately use any of the applicable features and functionalities of the Offerings with external applications or code not furnished by Splunk or any data not processed by the Offering; (h) exceed the Capacity purchased or (i) use any Offering in violation of all applicable laws and regulations (including but not limited to any applicable privacy and intellectual property laws).

#### \*\*\*\* 10. Our Ethics, Compliance and Corporate Responsibility\*\*

A. **Ethics and Corporate Responsibility.** Splunk is committed to acting ethically and in compliance with applicable law, and we have policies and guidelines in place to provide awareness of, and compliance with, the laws and regulations that apply to our business globally. We are committed to ethical business conduct, and we use diligent efforts to perform in accordance with the highest global ethical principles, as described in the Splunk Code of Conduct and Ethics found [here](https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?_ga=2.27382325.82146825.1675981089-269939538.1673288458&_gac=1.127441023.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw_wcB&gl=1*1xgvjcs*_ga*MjY5OTM5NTM4LjE2NzMyODg0NTg.*_ga_5EPM2P39FV*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w)([https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?\\_ga=2.27382325.82146825.1675981089-269939538.1673288458&\\_gac=1.127441023.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ\\_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw\\_wcB&gl=1\\*1xgvjcs\\*\\_ga\\*MjY5OTM5NTM4LjE2NzMyODg0NTg.\\*\\_ga\\_5EPM2P39FV\\*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w](https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?_ga=2.27382325.82146825.1675981089-269939538.1673288458&_gac=1.127441023.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw_wcB&gl=1*1xgvjcs*_ga*MjY5OTM5NTM4LjE2NzMyODg0NTg.*_ga_5EPM2P39FV*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w)).

B. **Anti-Corruption.** We implement and maintain programs for compliance with applicable anti-corruption and

anti-bribery laws. Splunk policy prohibits the offering or soliciting of any illegal or improper bribe, kickback, payment, gift, or thing of value to or from any of your employees or agents in connection with these General Terms. If we learn of any violation of the above, we will use reasonable efforts to promptly notify you at the main contact address provided by you to Splunk.

C. **\*\*Export.\*\*** We certify that Splunk is not on any of the relevant U.S. or EU government lists of prohibited persons, including the Treasury Departments List of Specially Designated Nationals and the Commerce Departments List of Denied Persons or Entity List. Export information regarding our Offerings, including our export control classifications for our Offerings, is found here: [https://www.splunk.com/en\\_us/legal/export-controls.html](https://www.splunk.com/en_us/legal/export-controls.html).

#### #### **\*\*11. Usage Data\*\***

From time to time, Splunk may collect Usage Data generated as a by-product of your use of Offerings. Usage Data does not include Customer Content. We collect Usage Data for a variety of reasons, such as to identify, understand, and anticipate performance issues and the factors that affect them, to provide updates and personalized experiences to customers, and to improve the Splunk Offerings. Details on Splunk's Usage Data collection practices are set forth in Splunk's Privacy Policy found here: [https://www.splunk.com/en\\_us/legal/privacy/privacy-policy.html](https://www.splunk.com/en_us/legal/privacy/privacy-policy.html).

#### #### **\*\*12. Capacity and Usage Verification\*\***

A. **\*\*Certification and Verification.\*\*** At Splunk's request, you will furnish Splunk a certification signed by your authorized representative verifying that your use of the Purchased Offering is in accordance with these General Terms and the applicable Order. For On-Premises Products, we may also ask you from time to time, but not more frequently than once per calendar period, to cooperate with us to verify usage and adherence to purchased Capacities. If Splunk requests a verification process, you agree to provide Splunk reasonable access to the On-Premises Product installed at your facility (or as hosted by your Third-Party Provider). If Splunk does any verification, it will be performed with as little interference as possible to your use of the On-Premises Product and your business operations. Splunk will comply with your (or your Third-Party Providers) reasonable security procedures.

B. **\*\*Overages.\*\*** If a verification or usage report reveals that you have exceeded the purchased Capacity or usage rights for your Purchased Offering (e.g., used as a service bureau) during the period reviewed, then we will have the right to invoice you using the applicable Fees at list price then in effect, which will be payable in accordance with these General Terms. Without limiting Splunk's foregoing rights, with respect to Hosted Services, Splunk may work with you to reduce usage so that it conforms to the applicable usage limit, and we will in good faith discuss options to right size your subscription as appropriate. Notwithstanding anything to the contrary herein, Splunk will have the right to directly invoice you for overages, regardless of whether you purchased the Purchased Offering from an authorized reseller or Digital Marketplace. See the Specific Offering Terms for any additional information related to overages for a Hosted Service.

#### #### **\*\*13. Our Use of Open Source\*\***

Certain Offerings may contain Open Source Software. Splunk makes available in the applicable Documentation a list of Open Source Software incorporated in our On-Premises Products as required by the respective Open Source Software licenses. Any Open Source Software that is delivered as part of your Offering and which may not be removed or used separately from the Offering is covered by the warranty, support and indemnification provisions applicable to the Offering. Some of the Open Source Software may have additional terms that apply to the use of the

Offering (e.g., the obligation for us to provide attribution of the specific licensor), and those terms will be included in the Documentation; however, these terms will not (a) impose any additional restrictions on your use of the Offering, or (b) negate or amend any of our responsibilities with respect to the Offering.

#### #### \*\*14. Splunk Developer Tools and Customer Extensions\*\*

Splunk makes Splunk Developer Tools available to you so you can develop Extensions for use with your Purchased Offerings (Extensions that you develop, &quot;\*\*Customer Extensions\*\*&quot;).

You have a nonexclusive, worldwide, nontransferable, nonsublicensable right, subject to the terms of these General Terms, to use Splunk Developer Tools to develop your Customer Extensions, including to support interoperability between the Offering and your system or environment. Splunk proprietary legends or notices contained in the Splunk Developer Tools may not be removed or altered when used in or with your Customer Extension. You retain title to your Customer Extensions, subject to Splunk's ownership in our Offerings and any materials and technology provided by Splunk in connection with the Splunk Developer Tools. You agree to assume full responsibility for the performance and distribution of Customer Extensions.

#### #### \*\*15. Third Party Products, Third-Party Extensions, Third-Party Content and Unsupported Splunk Extensions\*\*

A. **Third-Party Extensions on Splunkbase.** Splunk makes Extensions developed and/or made available by a third-party on Splunkbase (&quot;\*\*Third-Party Extension\*\*&quot;) available for download or access as a convenience to its customers. Splunk makes no promises or guarantees related to any Third-Party Extension, including the accuracy, integrity, quality, or security of the Third-Party Extension. Nothing in these General Terms or on Splunkbase will be deemed to be a representation or warranty by Splunk with respect to any Third-Party Extension, even if a particular Third-Party Extension is identified as &quot;certified&quot; or &quot;validated&quot; for use with an Offering. We may, in our reasonable discretion, block or disable access to any Third-Party Extension at any time. Your use of a Third-Party Extension is at your own risk and may be subject to any additional terms, conditions, and policies applicable to that Third-Party Extension (such as license terms, terms of service, or privacy policies of the providers of such Third-Party Extension). Third-Party Extensions may be installed on Hosted Services pursuant to our instructions.

B. **Third Party Content.** Hosted Services may contain features or functions that enable interoperation with Third-Party Content that you, in your sole discretion, choose to add to a Hosted Service. You may be required to obtain access separately to such Third-Party Content from the respective providers, and you may be required to grant Splunk access to your accounts with such providers to the extent necessary for Splunk to allow the interoperation with the Hosted Service. By requesting or allowing Splunk to enable access to such Third-Party Content in connection with the Hosted Services, you certify that you are authorized under the providers terms to allow such access. If you install or enable (or direct or otherwise authorize Splunk to install or enable) Third-Party Content for use with a Hosted Service where the interoperation includes access by the third-party provider to your Customer Content, you hereby authorize Splunk to allow the provider of such Third-Party Content to access Customer Content as necessary for the interoperation. You agree that Splunk is not responsible or liable for disclosure, modification or deletion of Customer Content resulting from access to Customer Content by such Third-Party Content, nor is Splunk liable for any damages or downtime that you may incur or any impact on your experience of the Hosted Service, directly or indirectly, as a result of your use of and/or reliance upon, any Third-Party Content, sites or resources.

C. **Splunk As a Reseller.** When you purchase third party products (&quot;**Third Party Products**&quot;) from Splunk as specified in an Order (which products shall include third party software, but not any support which Splunk itself has contracted to provide), the following provision applies. Splunk acts solely as a reseller of Third Party Products, which are fulfilled by the relevant third party vendor (&quot;**Third Party Vendor**&quot;), and the purchase and use of Third Party Products is subject solely to the terms, conditions and policies made available by such Third Party Vendor. Consequently, Splunk makes no representation or warranty of any kind regarding the Third Party Products, whether express, implied, statutory or otherwise, and specifically disclaims all implied terms, conditions and warranties (including as to quality, performance, availability, fitness for a particular purpose or non-infringement) to the maximum extent permitted by applicable law. You will bring any claim in relation to Third Party Products against the applicable Third Party Vendor directly. In no event will Splunk be liable to you for any claim, loss or damage arising out of the use, operation or availability of Third Party Product (whether such liability arises in contract, negligence, tort, or otherwise).

D. **Unsupported Splunk Extensions.** The Service Level Schedule commitments for any applicable Hosted Services will not apply to Splunk Extensions labeled on Splunkbase as &quot;**Not Supported**&quot;. You agree that Splunk is not responsible for any impact on your experience of a Hosted Service, as a result of your installation and/or use of any &quot;Not Supported&quot; Splunk Extensions, and that your sole remedy will be to remove the &quot;Not Supported&quot; Splunk Extension from the applicable Hosted Service. Further, some Splunk Extensions may not be compatible or certified for use with that Hosted Service (e.g., only specific Splunk Extensions are validated for our FedRAMP authorized environment for Splunk Cloud Platform). Please refer to the applicable Documentation for more information related to the Splunk Extensions compatible with your specific Purchased Offering.

#### **16.**

**Your Compliance**

A. **Lawful Use of Offerings.** When you access and use an Offering, you are responsible for complying with all laws, rules, and regulations applicable to your access and use. This includes being responsible for your Customer Content and users, for your users compliance with these General Terms, and the accuracy, lawful use of, and the means by which you acquired your Customer Content. You may not transmit and/or store PHI Data, PCI Data or ITAR Data within a Hosted Services unless you have specifically purchased a Purchased Offering for that applicable regulated Hosted Services environment (as identified in an Order).

B. **Registration.** You agree to provide accurate and complete information when you register for and use any Offering and agree to keep this information current. Each person who uses any Offering must have a separate username and password. For Hosted Services, you must provide a valid email address for each person authorized to use your Hosted Services, and you may only have one person per username and password. Splunk may reasonably require additional information in connection with certain Offerings (e.g., technical information necessary for your connection to a Hosted Service), and you will provide this information as reasonably requested by Splunk. You are responsible for securing, protecting, and maintaining the confidentiality of your account usernames, passwords and access tokens.

C. **Export Compliance.** You will comply with all applicable export laws and regulations of the United States and any other country (&quot;Export Laws&quot;) where your users use any of the Offerings. You certify that you are not on any of the relevant U.S. government lists of prohibited persons, including the Treasury Departments List of Specially Designated Nationals and the Commerce Departments List of Denied Persons or Entity List. You will not export, re-export, ship, transfer or otherwise use the Offerings in any country subject to an embargo

or other sanction by the United States, including, without limitation, Iran, Syria, Cuba, the Crimea Region of Ukraine, Sudan and North Korea, and you will not use any Offering for any purpose prohibited by the Export Laws.

D. **GovCloud Services.** If you access or use any Hosted Services in the specially isolated Amazon Web Services ("AWS") GovCloud (US) region (including without limitation any Hosted Services that are provisioned in a FedRAMP authorized environment within the AWS GovCloud (US) region)), you hereby represent and warrant that: (i) you are a "US Person" as defined under ITAR (see 22 CFR part 120.62); (ii) you have and will maintain a valid Directorate of Defense Trade Controls registration, if required by ITAR; (iii) you and your end users are not subject to export control restrictions under US export control laws and regulations (i.e., users are not denied or debarred parties or otherwise subject to sanctions); (iv) you will maintain an effective compliance program to ensure compliance with applicable US export control laws and regulations, including ITAR, as applicable; and (v) you will maintain effective access controls as described in the Specific Offering Terms for the applicable Hosted Services. You are responsible for verifying that any user accessing Customer Content in the Hosted Services in the AWS GovCloud (US) region is eligible to access such Customer Content. The Hosted Services in the AWS GovCloud (US) region may not be used to process or store classified data. You will be responsible for all sanitization costs incurred by Splunk if users introduce classified data into the Hosted Services in the AWS GovCloud (US) region. You may be required to execute additional addendums to this agreement prior to provisioning of selected Hosted Services.

E. **Acceptable Use.** Without limiting any terms under these General Terms, you will also abide by our Hosted Services acceptable use policy: <https://www.splunk.com/view/SP-CAAAMB6>.

####

**17. Confidentiality**

A. **Confidential Information.** Each party will protect the Confidential Information of the other. Accordingly, Receiving Party agrees to: (i) protect the Disclosing Partys Confidential Information using the same degree of care (but in no event less than reasonable care) that it uses to protect its own Confidential Information of a similar nature; (ii) limit use of Disclosing Partys Confidential Information for purposes consistent with these General Terms, and (iii) use commercially reasonable efforts to limit access to Disclosing Partys Confidential Information to its employees, contractors and agents or those of its Affiliates who have a bona fide need to access such Confidential Information for purposes consistent with these General Terms and who are subject to confidentiality obligations no less stringent than those herein.

B. **Compelled Disclosure of Confidential Information.** Notwithstanding the foregoing terms, the Receiving Party may disclose Confidential Information of the Disclosing Party if it is compelled by law enforcement agencies or regulators to do so, provided the Receiving Party gives the Disclosing Party prior notice of such compelled disclosure (to the extent legally permitted) and reasonable assistance, at the Disclosing Party's cost, if the Disclosing Party wishes to contest the disclosure. If the Receiving Party is compelled to disclose the Disclosing Partys Confidential Information as part of a civil proceeding to which the Disclosing Party is a Party, and the Disclosing Party is not contesting the disclosure, the Disclosing Party will reimburse the Receiving Party for its reasonable cost of compiling and providing secure access to such Confidential Information.

#### **18. Payment**

The payment terms below only apply when you purchase Offerings directly from Splunk. When you purchase from an authorized reseller or Digital Marketplace, the payment terms are between you and the authorized reseller



or Digital Marketplace. However, a breach of your payment obligations for an Offering with a Digital Marketplace will be deemed a breach of this Section 18.

A. **\*\*Fees.\*\*** You agree to pay all Fees specified in the Orders. Fees are non-cancelable and non-refundable, except as otherwise expressly set forth in these General Terms. Without limiting any of our other rights or remedies herein, overdue charges may accrue interest monthly at the rate of 1.5% of the then-outstanding unpaid balance, or the maximum rate permitted by law, whichever is lower. Fees are due and payable either within 30 days from the date of Splunks invoice or as otherwise stated in the Order.

B. **\*\*Credit Cards.\*\*** If you pay by credit, or debit card you: (i) will provide Splunk or its designated third-party payment processor with valid credit or debit card information; and (ii) hereby authorize Splunk or its designated third-party payment processor to charge such credit or debit card for all items listed in the applicable Order. Such charges must be paid in advance or in accordance with any different billing frequency stated in the applicable Order. You are responsible for providing complete and accurate billing and contact information and notifying Splunk in a timely manner of any changes to such information.

C. **\*\*Taxes.\*\*** All Fees quoted are exclusive of applicable taxes and duties, including any applicable sales and use tax. You are responsible for paying any taxes or similar government assessments (including, without limitation, value-added, sales, use or withholding taxes). We will be solely responsible for taxes assessable against us based on our net income, property, and employees.

#### #### **\*\*19. Splunks Warranties\*\***

A. **\*\*Relationship to Applicable Law.\*\*** We will not seek to limit our liability, or any of your warranties, rights and remedies, to the extent the limits are not permitted by applicable law (e.g., warranties, remedies or liabilities that cannot be excluded by applicable law).

B.

**\*\*General Corporate Warranty.\*\*** Splunk warrants that it has the legal power and authority to enter into these General Terms.

C. **\*\*Hosted Services Warranty.\*\*** Splunk warrants that during the applicable Term: (i) Splunk will not materially decrease the overall functionality of the Hosted Services; and (ii) the Hosted Services will perform materially in accordance with the applicable Documentation. Our sole and exclusive liability, and your sole and exclusive remedy for any breach of these warranties, will be your right to terminate the applicable Hosted Services Purchased Offering, and we will refund to you any prepaid but unused Fees for the remainder of the Term.

D. **\*\*On-Premises Product Warranty.\*\*** Splunk warrants that for a period of ninety (90) days from the Delivery of an On-Premises Product, the On-Premises Product will substantially perform the material functions described in the applicable Documentation for such On-Premises Product, when used in accordance with the applicable Documentation. Splunks sole liability, and your sole remedy, for any failure of the On-Premises Product to conform to the foregoing warranty, is for Splunk to do one of the following (at Splunks sole option and discretion) (i) modify, or provide an Enhancement for, the On-Premises Product so that it conforms to the foregoing warranty, (ii) replace your copy of the On-Premises Product with a copy that conforms to the foregoing warranty, or (iii) terminate the Purchased Offering with respect to the non-conforming On-Premises Product and refund the Fees paid by you for such non-conforming On-Premises Product.

E. **\*\*Disclaimer of Implied Warranties.** Except as expressly set forth above, the Offerings are provided &quot;as

is&quot; with no warranties or representations whatsoever express or implied. Splunk and its suppliers and licensors disclaim all warranties and representations, including any implied warranties of merchantability, satisfactory quality, fitness for a particular purpose, noninfringement, or quiet enjoyment, and any warranties arising out of course of dealing or trade usage. Splunk does not warrant that use of Offerings will be uninterrupted, error free or secure, or that all defects will be corrected.\*\*

#### #### \*\*20. Ownership\*\*

A. **\*\*Offerings.\*\*** As between you and Splunk, Splunk owns and reserves all right, title, and interest in and to the Offerings, developer tools and other Splunk materials, including all intellectual property rights therein. We retain rights in anything delivered or developed by us or on our behalf under these General Terms. No rights are granted to you other than as expressly set forth in these General Terms.

B. **\*\*Customer Content.\*\*** You own and reserve all right, title and interest in your Customer Content. By sending Customer Content to a Hosted Service, you grant us a worldwide, royalty free, non-exclusive license to access and use the Customer Content for purposes of providing you the Hosted Service.

C. **\*\*Feedback.\*\*** You have no obligation to provide us with ideas for improvement, suggestions, or other feedback (collectively, &quot;\*\*Feedback\*\*&quot;) in connection with an Offering, unless otherwise expressly set forth in the applicable Order. If, however, you provide any Feedback, you hereby grant to Splunk a non-exclusive, transferable, irrevocable, worldwide, royalty-free license (with rights to sublicense) to make, use, sell, offer to sell, reproduce, modify, distribute, make available, publicly display and perform, disclose and otherwise commercially exploit the Feedback.

#### #### \*\*21. Term and Termination\*\*

A. **\*\*Term and Renewal.\*\*** These General Terms will commence upon the Effective Date and will remain in effect until the expiration of all applicable Purchased Offerings, unless earlier terminated pursuant to this Section. Termination of a specific Purchased Offering will not affect the Term of any other Purchased Offering. Termination of these General Terms will have the effect of terminating all Purchased Offerings. Grounds for terminating a Purchased Offering (e.g., for non-payment), that are specific to the Purchased Offering, will not be grounds to terminate Purchased Offerings where no breach exists. Unless indicated otherwise in an Order, the Term of a Purchased Offering (and these General Terms) will automatically renew for an additional period of time equal to the length of the preceding Term, unless one party notifies the other of its intent not to renew at least one (1) day in advance of the expiration of the Term or then-current renewal period.

B. **\*\*Termination.\*\*** Either party may terminate these General Terms, or any Purchased Offering, by written notice to the other party in the event of a material breach of these General Terms, or the specific terms associated with that Purchased Offering, that is not cured within thirty (30) days of receipt of the notice. Upon any expiration or termination of a Purchased Offering, the rights and licenses granted to you for that Purchased Offering will automatically terminate, and you agree to immediately (i) cease using and accessing the Offering, (ii) return or destroy all copies of any On-Premises Products and other Splunk materials and Splunk Confidential Information in your possession or control, and (iii) upon our request, certify in writing the completion of such return or destruction. Upon termination of these General Terms or any Purchased Offering, Splunk will have no obligation to refund any Fees or other amounts received from you during the Term. Notwithstanding any early termination above, except for your termination for our uncured material breach, you will still be required to pay all

Fees payable under an Order.

C. **\*\*Survival.\*\*** The termination or expiration of these General Terms will not affect any provisions herein which by their nature survive termination or expiration, including the provisions that deal with the following subject matters: definitions, ownership of intellectual property, confidentiality, payment obligations, effect of termination, limitation of liability, privacy, and the “Miscellaneous” section in these General Terms.

D. **\*\*Suspension of Service.\*\*** In the event of a material breach or threatened material breach of this Agreement, Splunk may, without limiting its other rights and remedies, suspend your use of the Hosted Service until such breach is cured or Splunk reasonably believes there is no longer a threat, provided that, we will give you at least five (5) days prior notice before suspension. Suspension of a Hosted Service will have no impact on the duration of the Term of the Purchased Offering, or the associated Fees owed.

#### #### **\*\*22. Limitation of Liability\*\***

**\*\*In no event will the aggregate liability of either party, together with any of its Affiliates, arising out of or related to any Purchased Offering exceed the total amount paid by you for that Purchased Offering in the twelve (12) months preceding the first incident out of which the liability arose. However, the foregoing limitation will not limit your obligations under the “Payment” section above and will not be deemed to limit your rights to any service level credits under any applicable Service Level Schedule. Furthermore, the cap above will not be deemed to limit Splunk’s right to recover amounts for your use of an Offering in excess of the Capacity purchased or use outside of Internal Business Purposes.\*\***

**\*\*In no event will either party or its Affiliates have any liability arising out of or related to these General Terms for any lost profits, revenues, goodwill, or indirect, special, incidental, consequential, cover, business interruption or punitive damages.\*\***

**\*\*The foregoing limitations will apply whether the action is in contract or tort and regardless of the theory of liability, even if a party or its Affiliates have been advised of the possibility of such damages or if a party’s or its Affiliates remedy otherwise fails of its essential purpose.\*\***

**\*\*The limitation of liability herein will not apply to a party’s infringement of the other party’s intellectual property rights, indemnification obligations, or the fraud, gross negligence or willful misconduct of a party.\*\***

**\*\*The foregoing disclaimers of damages will also not apply to the extent prohibited by law. Some jurisdictions do not allow the exclusion or limitation of certain damages. To the extent such a law applies to you, some or all of the exclusions or limitations set forth above may not apply to you, and you may have additional rights.\*\***

#### #### **\*\*23. Indemnity\*\***

A. **\*\*Our Indemnification to You.\*\*** Splunk will defend and indemnify you, and pay all damages (including attorneys fees and costs) awarded against you, or that are agreed to in a settlement, to the extent a claim, demand, suit or proceeding is made or brought against you or your Affiliates by a third party (including those brought by a government entity) alleging that a Purchased Offering infringes or

misappropriates such third party's patent, copyright, trademark or trade secret (a "Customer Claim"). Splunk will have no obligation under the foregoing provision to the extent a Customer Claim arises from your breach of these General Terms, your Customer Content, Third-Party Extension, or the combination of the Offering with: (i) Customer Content; (ii) Third-Party Extensions; (iii) any software other than software provided by Splunk; or (iv) any hardware or equipment. However, Splunk will indemnify against combination claims to the extent (y) the combined software is necessary for the normal operation of the Purchased Offering (e.g., an operating system), or (z) the Purchased Offering provides substantially all the essential elements of the asserted infringement or misappropriation claim. Splunk may in its sole discretion and at no cost to you: (1) modify any Purchased Offering so that it no longer infringes or misappropriates a third party right, (2) obtain a license for your continued use of the Purchased Offering, in accordance with these General Terms, or (3) terminate the Purchased Offering and refund to you any prepaid fees covering the unexpired Term.

B. **Your Indemnification to Us.** Unless expressly prohibited by applicable law, you will defend and indemnify us, and pay all damages (including attorneys fees and costs) awarded against Splunk, or that are agreed to in a settlement, to the extent a claim, demand, suit or proceeding is made or brought against Splunk or its Affiliates by a third party (including those brought by a government entity) that: (i) alleges that your Customer Content or Customer Extensions infringes or misappropriates such third party's patent, copyright, trademark or trade secret, or violates another right of a third party; or (ii) alleges that your Customer Content or your use of any Offering violates applicable law or regulation.

C. **Mutual Indemnity.** Each party will defend, indemnify and pay all damages (including attorneys fees and costs) awarded against the other party, or that are agreed to in a settlement to the extent that an action brought against the other party by a third party is based upon a claim for bodily injury (including death) to any person, or damage to tangible property resulting from the negligent acts or willful misconduct of the indemnifying party or its personnel hereunder, and will pay any reasonable, direct, out-of-pocket costs, damages and reasonable attorneys fees attributable to such claim that are awarded against the indemnified party (or are payable in settlement by the indemnified party).

D. **Process for Indemnification.** The indemnification obligations above are subject to the party seeking indemnification to: (i) provide the other party with prompt written notice of the specific claim; (ii) give the indemnifying party sole control of the defense and settlement of the claim (except that the indemnifying party may not settle any claim that requires any action or forbearance on the indemnified party's part without their prior consent, which will not unreasonably withhold or delay); and (iii) gives the indemnifying party all reasonable assistance, at such party's expense.

#### #### **24. Updates to Offerings**

Our Offerings and policies may be updated over the course of our relationship. From time to time, Splunk may update or modify an Offering and our policies, provided that: (a) the change and modification applies to all customers generally, and are not targeted to any particular customer; (b) no such change or modification will impose additional fees on you during the applicable Term or additional restrictions on your use of the Offering, (c) no such change will override or supersede the allocation of risk between us under these General Terms, including without limitation the terms under Sections 22 (Limitation of Liability) and 23 (Indemnity); (d) no such change or modification will materially reduce the security protections or overall functionality of the applicable Offering; and (e) any such change or modification will apply only prospectively, and will not apply to any breach or dispute that arose between the parties prior to the effective date of the change or modification. In the event of any conflict between these General Terms and the policies incorporated herein by reference, these General Terms will control.

#### \*\*25. Governing Law\*\*

These General Terms will be governed by and construed in accordance with the laws of the State of California, as if performed wholly within the state and without giving effect to the principles of conflict of law. Any legal action or proceeding arising under these General Terms will be brought exclusively in the federal or state courts located in the Northern District of California and the parties hereby consent to personal jurisdiction and venue therein. Splunk may seek injunctive or other relief in any state, federal, or national court of competent jurisdiction for any actual or alleged

infringement of intellectual property or other proprietary rights of Splunk, its Affiliates, or any third party.

Neither the Uniform Computer Information Transactions Act nor the United Nations Convention for the International Sale of Goods will apply to these General Terms.

#### \*\*26. Use of Customer Name\*\*

You agree that we may add your name to our customer list and identify you as a Splunk customer on Splunk's websites. Any further public use of your name in connection with Splunk marketing activities (e.g., press releases) will require your prior approval.

#### \*\*27. Miscellaneous\*\*

A. **Different Terms.** Splunk expressly rejects terms or conditions in any Customer purchase order or other similar document that are different from or additional to the terms and conditions set forth in these General Terms. Such different or additional terms and conditions will not become a part of the agreement between the parties notwithstanding any subsequent acknowledgement, invoice or license key that Splunk may issue.

B. **No Future Functionality.** You agree that your purchase of any Offering is not contingent on the delivery of any future functionality or features, or dependent on any oral or written statements made by Splunk regarding future functionality or features.

C. **Notices.** Except as otherwise specified in these General Terms, all notices related to these General Terms will be sent in writing to the addresses set forth in the applicable Order, or to such other address as may be specified by either party to the other party, and will be effective upon (i) personal delivery, (ii) the second business day after mailing, or (iii), except for notices of termination or an indemnifiable claim ("Legal Notices"), which shall clearly be identifiable as Legal Notices, the day of sending by email. Billing-related notices to Customer will be addressed to the relevant billing contact designated by Customer. All other notices to Customer will be addressed to the relevant system administrator designated by Customer.

D. **Assignment.** Neither party may assign, delegate, or transfer these General Terms, in whole or in part, by agreement, operation of law or otherwise without the prior written consent of the other party, however Splunk may assign these General Terms in whole or in part to an Affiliate or in connection with an internal reorganization or a merger, acquisition, or sale of all or substantially all of Splunk's assets to which these General Terms relates. Any attempt to assign these General Terms other than as permitted herein will be null and void. Subject to the foregoing, these General Terms will bind and inure to the benefit of the parties permitted successors and assigns.

E. **\*\*U.S. Government Use Terms.\*\*** Splunk provides Offerings for U.S. federal government end use solely in accordance with the following: Government technical data and rights related to Offerings include only those rights customarily provided to the public as defined in these General Terms. This customary commercial license is provided in accordance with FAR 12.211 (Technical Data) and FAR 12.212 (Computer Software) and, for Department of Defense transactions, DFARS 252.227-7015 (Technical Data/Commercial Items) and DFARS 227.7202-3 (Rights in Commercial Computer Software or Commercial Computer Software Documentation). If a government agency has a need for rights not conveyed under these terms, it must negotiate with Splunk to determine if there are acceptable terms for transferring such rights, and a mutually acceptable written addendum specifically conveying such rights must be included in any applicable contract or agreement.

F. **\*\*Waiver; Severability.\*\*** The waiver by either party of a breach of or a default under these General Terms will not be effective unless in writing. The failure by either party to enforce any provisions of these General Terms will not constitute a waiver of any other right hereunder or of any subsequent enforcement of that or any other provisions. If a court of competent jurisdiction holds any provision of these General Terms invalid or unenforceable, the remaining provisions of these General Terms will remain in full force and effect, and the provision affected will be construed so as to be enforceable to the maximum extent permissible by law.

G. **\*\*Integration; Entire Agreement.\*\*** These General Terms along with any additional terms incorporated herein by reference, constitute the complete and exclusive understanding and agreement between the parties and supersedes any and all prior or contemporaneous agreements, communications and understandings, written or oral, relating to their subject matter. Except as otherwise expressly set forth herein, any waiver, modification, or amendment of any provision of these General Terms will be effective only if in writing and signed by duly authorized representatives of both parties.

H. **\*\*Force Majeure.\*\*** Neither party or its Affiliates, subsidiaries, officers, directors, employees, agents, partners and licensors will (except for the obligation to make any payments) be liable for any delay or failure to perform any obligation under these General Terms where the delay or failure results from any cause beyond their reasonable control, including, without limitation, acts of God, labor disputes or other industrial disturbances, electrical, telecommunications, or other utility failures, earthquake, storms or other elements of nature, blockades, embargoes, riots, acts or orders of government, acts of terrorism, or war.

I. **\*\*Independent Contractors; No Third-Party Beneficiaries.\*\*** The parties are independent contractors. These General Terms do not create a partnership, franchise, joint venture, agency, fiduciary, or employment relationship between the parties. There are no third-party beneficiaries of these General Terms. Neither party has the authority to bind or act on behalf of the other party in any capacity or circumstance whether by contract or otherwise.

#### **## \*\*General Terms Definitions Exhibit\*\***

&quot;**\*\*Affiliates\*\***&quot; means a corporation, partnership or other entity controlling, controlled by or under common control with such party, but only so long as such control continues to exist. For purposes of this definition, &quot;**\*\*control\*\***&quot; means ownership, directly or indirectly, of greater than fifty percent (50%) of the voting rights in such entity (or, in the case of a noncorporate entity, equivalent rights).

&quot;**\*\*Capacity\*\***&quot; means the measurement of usage of an Offering (e.g., aggregate daily volume of data indexed, specific source type rights, number of search and compute units, number of monitored accounts, virtual CPUs, user seats, use cases, storage capacity, etc.) that is purchased for an Offering, as set forth in the applicable

Order. The Capacities for each of our Offerings can be found here: [https://www.splunk.com/en\\_us/legal/licensed-capacity.html](https://www.splunk.com/en_us/legal/licensed-capacity.html).

"**CCPA**" means the California Consumer Privacy Act of 2018.

"**Confidential Information**" means all nonpublic information disclosed by a party ("**Disclosing Party**") to the other party ("**Receiving Party**"), whether orally or in writing, that is designated as "confidential" or that, given the nature of the information or circumstances surrounding its disclosure, should reasonably be understood to be confidential. Notwithstanding the foregoing, "Confidential Information" does not include any information that: (i) is or becomes generally known to the public without breach of any obligation owed to the Disclosing Party, (ii) was known to the Receiving Party prior to its disclosure by the Disclosing Party without breach of any obligation owed to the Disclosing Party, (iii) is received from a third party without breach of any obligation owed to the Disclosing Party, or (iv) was independently developed by the Receiving Party.

"**Content Subscription**"

means the right of Customer to receive content applicable to an Offering (e.g., models, templates, searches, playbooks, rules and configurations, as described in the relevant Documentation) on a periodic basis over the applicable Term. Content Subscriptions are purchased as an add-on service and are identified in an Order.

"**Customer Content**" means any data that is ingested by or on behalf of you into an Offering from your internal data sources.

"**Delivery**" means the date of Splunk's initial delivery of the license key for the applicable Offering or, for Hosted Services, the date Splunk makes the applicable Offering available to you for access and use.

"**Digital Marketplace**" means an online or electronic marketplace operated or controlled by a third party where Splunk has authorized the marketing and distribution of its Offerings.

"**Documentation**" means the online user guides, documentation and help and training materials published

on Splunk's website (such as at <https://docs.splunk.com/Documentation>) or accessible through the applicable Offering, as may be updated by Splunk from time to time.

"**Enhancements**" means any updates, upgrades, releases, fixes, enhancements, or modifications to a Purchased Offering made generally commercially available by Splunk to its customers under the terms and conditions in the Support Exhibit.

"**Extension**" means any separately downloadable or accessible suite, configuration file, add-on, technical add-on, plug-in, example module, command, function, playbook, content or application that extends the features or functionality of the applicable Offering.

"**Fees**" means the fees that are applicable to an Offering, as identified in the Order.

"**GDPR**" means the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard

to the processing of personal data and on the free movement of such data) as updated, amended or replaced from time to time.

"\*\*HIPAA\*\*" means the Health Insurance Portability and Accountability Act of 1996, as amended, and supplemented by the Health Information Technology for Economic and Clinical Health Act.

"\*\*Hosted Service\*\*" means a technology service hosted by or on behalf of Splunk and provided to you.

"\*\*Internal Business Purpose\*\*" means your use of an Offering for your own internal business operations, based on the analysis, monitoring or processing of your data from your systems, networks, and devices. Accordingly, Internal Business Purpose does not include monitoring or servicing the systems, networks and devices of third parties.

"\*\*ITAR Data\*\*" means information protected by the International Traffic in Arms Regulations.

"\*\*Nonprofit\*\*" means a U.S. Federal 501(c)(3), tax-exempt, nonprofit corporation or association (or other nonprofit entity organized in accordance with the laws of where your nonprofit entity is registered) that has qualified for a free, donated Offering in connection with a Splunk donation program.

"\*\*Offerings\*\*" means the products, services, and other offerings that Splunk makes generally available, including without limitation On-Premises Products, Hosted Services, Support Programs, Content Subscriptions and Configuration and Implementation Services.

"\*\*On-Premise Product\*\*" means the Splunk software that is delivered to you and deployed and operated by you or on your behalf on hardware designated by you, and any Enhancements made available to you by Splunk.

"\*\*Open Source Software\*\*" means software that is licensed under a license approved by the Open Source Initiative or similar freeware license, with terms requiring that such software code be (i) disclosed or distributed in source code or object code form, (ii) licensed for the purpose of making derivative works, and/or (iii) redistributed under the same license terms.

"\*\*Orders\*\*" means Splunk's quote or ordering document (including online order form) accepted by you via your purchase order or other ordering document submitted to Splunk (directly or indirectly through an authorized reseller or Digital Marketplace) to order Offerings, which references the Offering, Capacity, pricing and other applicable terms set forth in an applicable Splunk quote or ordering document. Orders do not include the terms of any preprinted terms on your purchase order or other terms on a purchase order that are additional or inconsistent with the terms of these General Terms.

"\*\*PCI Data\*\*" means credit card information within the scope of the Payment Card Industry Data Security Standard.

"\*\*PHI Data\*\*" means any protected health data, as defined under HIPAA.

"\*\*Purchased Offerings\*\*" means the services, subscriptions and licenses to Offerings that are acquired by you under Orders, whether directly or through an authorized reseller or Digital Marketplace.



"Service Level Schedule" means a Splunk policy that applies to the availability and uptime of a Hosted Service and which, if applicable, offers service credits as set forth therein.

"Splunkbase" means Splunk's online directory of or platform for Extensions, currently located at <https://splunkbase.splunk.com> and any and all successors, replacements, new versions, derivatives, updates and upgrades and any other similar platform(s) owned and/or controlled by Splunk.

"Splunk Developer Tool" means the standard application programming interface, configurations, software development kits, libraries, command line interface tools, other tooling (including scaffolding and data generation tools), integrated development environment plug-ins or extensions, code examples, tutorials, reference guides and other related materials identified and provided by Splunk to facilitate or enable the creation of Extensions or otherwise support interoperability between the software and your system or environment.

"Splunk Extensions" means Extensions made available through Splunkbase that are identified on Splunkbase as built by Splunk (and not by any third party).

"Support Programs" are the Support Programs offered by Splunk and identified here: [https://www.splunk.com/en\\_us/customer-success/support-programs.html](https://www.splunk.com/en_us/customer-success/support-programs.html)

"Term" means the duration of your subscription or license to the applicable Offering that starts and ends on the date listed on the applicable Order. If no start date is specified in an Order, the start date will be the Delivery date of the Offering.

"Third Party Content" means information, data, technology, or materials made available to you by any third party that you license and add to a Hosted Service or direct Splunk to install in connection with a Hosted Service. Third-Party Content includes but is not limited to, Third-Party Extensions, web-based or offline software applications, data service or content that are provided by third parties.

"Usage Data" means data generated from the usage, configuration, deployment, access, and performance of an Offering. For example, this may include such things as information about your operating environment, such as your network and systems architecture, or sessions, such as page loads and session views, duration, or interactions, errors, number of searches, source types and format (e.g., json, xml, csv), ingest volume, number of active and licensed users, or search concurrency. Usage Data does not include Customer Content.

## ## \*\*Support Exhibit to Splunk General Terms\*\*

This Support Exhibit forms a part of the Splunk General Terms and governs your purchase, and Splunk's provision of Support Services.

### 1. \*\*Support Programs\*\*

Support Programs purchased as part of a Purchased Offering will be identified in your applicable Order. Splunk will provide you the level of Support Services described under the purchased Support Program, subject to your payment of applicable Fees. "Support Programs" are the Support Programs offered by Splunk and identified here: [https://www.splunk.com/en\\_us/customer-success/support-programs.html](https://www.splunk.com/en_us/customer-success/support-programs.html).

## 2. **Support Services**

"**Support Services**" include technical support for your Purchased Offerings, and, when available, the provision of Enhancements for your Purchased Offerings, subject to the Support Policy described below. Technical support under a Support Program is available via web portal, and certain Support Programs also make support available via telephone. Support Services will be delivered by a member of Splunk's technical support team during the regional hours of operation applicable under the Support Program. Support Services are delivered in English unless you are in a location where we have made localized Support Services available.

## 3. **Support Policy**

Our Support Policy, provided here: [https://www.splunk.com/en\\_us/legal/splunk-software-support-policy.html](https://www.splunk.com/en_us/legal/splunk-software-support-policy.html) ("**Support Policy**",) describes the duration of our Support Services for certain Splunk On-Premises Products and other policies associated with our Support Services.

As we release new versions for our Offerings, we discontinue Support Services for certain older versions. Our Support Policy sets forth the schedule for the duration of support, and end of support, for Offering versions. The current versions of our Offerings that are supported under our Support Policy and will be our "Supported Versions" herein. The Support Policy may not apply to Hosted Services, and the product and services version we make available as our Hosted Services will be deemed Supported Versions herein.

## 4. **Case Priority**

Each Support Program offers different support levels for your case priority levels. When submitting a case, you will select the priority for initial response by logging the case online, in accordance with the priority guidelines set forth under your Support Program. When the case is received, we may in good faith change the priority if the issue does not conform to the criteria for the selected priority. When that happens, we will provide you with notice (electronic or otherwise) of such change.

## 5. **Exclusions**

We will have no obligation to provide support for issues caused by any of the following (each, a "**Customer Generated Error**"): (i) modifications to an Offering not made by Splunk; (ii) use of an Offering other than as authorized in the General Terms or as provided in the applicable Documentation; (iii) damage to the machine on which an On-Premises Product is installed; (iv) use of a version of an Offering other than the Supported Version; (v) third-party products that are not expressly noted in the Documentation as supported by Splunk; or (vi) conflicts related to replacing or installing hardware, drivers, and software that are not expressly supported by Splunk and described in the applicable Documentation. If we determine that support requested by you is for an issue caused by a Customer Generated Error, we will notify you of that fact as soon as reasonably possible under the circumstances. If you agree that we should provide support for the Customer Generated Error via a confirming email, then we will have the right to invoice you at our then-current time and materials rates for any such support provided by us.

## 6. **Support for Splunk Extensions**

Only Splunk Extensions that are labeled as "**Splunk Supported**" on Splunkbase, or other Splunk-

branded marketplace, are eligible for support, and this support is limited. For those labeled Splunk Supported, we will provide an initial response and acknowledgement in accordance with the P3 terms that are applicable in the applicable Support Program, and Enhancements may be made available.

No other terms of a Support Program will apply to a Splunk Application. For those labeled as "Not Supported", Splunk will have no support obligations.

#### 7. Authorized Support Contacts

You are entitled to have a certain number of Support Contacts under each Support Program. "Support Contacts" means the individual(s) specified by you that are authorized to submit support cases.

The number of Support Contacts will be based on the Capacity of the Offering purchased, and the applicable Support Program. The number of Support Contacts will be set forth in customers entitlement information on the Splunk support portal.

We only take support requests from, and communicate with, your Support Contacts in connection with support cases. We strongly recommend that your Support Contact(s) are trained on the applicable Offering. In order to designate Support Contacts, you must provide the individuals primary email address and Splunk.com login ID.

#### 8.

##### Defect Resolution

Should we determine that an Offering has a defect, we will, at our sole option, repair the defect in the version of the Offering that you are then currently using or instruct you to install a newer version of the Offering with that defect repaired. We reserve the right to provide you with a workaround in lieu of fixing a defect should we in our sole judgment determine that it is more effective to do so.

#### 9. Your Assistance

Should you report a purported defect or error in an Offering, we may require you to provide us with the following information: (a) a general description of your operating environment; (b) a list of all hardware components, operating systems and networks; (c) a reproducible test case; and (d) any log files, trace and systems files. Your failure to provide this information may prevent us from identifying and fixing that purported defect.

#### 10. Changes to Support Programs

You acknowledge that, subject to the Support Policy, and subject to any commitment we have during the Term, we have the right to discontinue the manufacture, development, sale or support of any Offering, at any time, in our sole discretion. We further reserve the right to alter Support Programs from time to time, using reasonable discretion, but in no event will such alterations, during the Term of any Order, result in diminished Support Services from the level of your applicable purchased Support Program.

#### Configuration and Implementation Services Exhibit to Splunk General Terms

This Configuration and Implementation Services Exhibit forms a part of the Splunk General Terms and governs your purchase, and Splunk's provision of Configuration and Implementation Services.

**\*\*Capitalized terms below are defined in the General Terms, this Exhibit or in the Definition Exhibit attached to this Exhibit.\*\***

**1. \*\*Services and Statements of Work\*\***

We will perform the C&I Services for you that are set forth in the applicable Statements of Work. You will pay the Fees under each Statement of Work in accordance with these General Terms, or otherwise as we may expressly agree in the applicable Statement of Work.

In each Statement of Work, we will designate our primary point of contact for you for all matters relating to the applicable C&I Services (which we may change from time to time upon notice).

**2. \*\*Our Personnel\*\***

A. **\*\*Qualifications.\*\*** The Personnel we assign to perform the C&I Services will be qualified, skilled, experienced and otherwise fit for the performance of the C&I Services. If you, in your reasonable judgement, determine that Personnel assigned to your project are unfit, we will in good faith discuss alternatives, and we will replace Personnel as reasonably necessary. You acknowledge that any replacement may cause delay in the performance of the C&I Services.

B. **\*\*Personnel Conduct.\*\*** Our Personnel are subject to our Splunk Code of Conduct and Ethics [here]([https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?\\_ga=2.200727335.82146825.1675981089-269939538.1673288458&\\_gac=1.188710106.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ\\_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw\\_wcB&\\_gl=1\\*1m2mlyb\\*\\_ga\\*MjY5OTM5NTM4LjE2NzMyODg0NTg.\\*\\_ga\\_5EPM2P39FV\\*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYyMC4w](https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?_ga=2.200727335.82146825.1675981089-269939538.1673288458&_gac=1.188710106.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw_wcB&_gl=1*1m2mlyb*_ga*MjY5OTM5NTM4LjE2NzMyODg0NTg.*_ga_5EPM2P39FV*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYyMC4w)), which includes, without limitation, an obligation to comply with our policies on protecting customer information, prohibitions on illegal drugs and any impaired job performance, avoiding conflicts of interest, and acting ethically at all times. We also background check our employees, per the Section below.

C. **\*\*Use of Subcontractors.\*\*** We reserve the right to use subcontractors in performance of the C&I Services, provided: (a) any subcontractor we use meets the requirements herein and conditions of these General Terms and the Statement of Work; (b) we will be responsible for the subcontractors compliance with the terms herein and the Statement of Work; and (c) upon your request or inquiry, we will identify any subcontractor that we are using, or plan to use, for C&I Services, and will cooperate in good faith to provide you with all relevant information regarding such subcontractors.

D. **\*\*No Employee Benefits.\*\*** We acknowledge and agree that our Personnel are not eligible for or entitled to receive any compensation, benefits, or other incidents of employment that you make available to your employees. We are solely responsible for all employment related taxes, expenses, withholdings, and other similar statutory obligations arising out of the relationship between us and our Personnel and the performance of C&I Services by such Personnel.

**3. \*\*Our Background Checks, Security and Compliance Obligations\*\***

A. **\*\*Compliance with Your Security Program.\*\*** While on your premises, our Personnel will comply with your

security practices and procedures generally prescribed by you for onsite visitors and service providers. However, any requirement

that is in addition to the compliance requirements set forth in this Schedule (e.g., background checks that are different from the background checks described herein) must be expressly set forth in a Statement of Work. We agree to discuss in good faith any condition or requirement you may have for our Personnel that are different from standard policies, however any additional requirement may delay C&I Services and must be vetted and implemented by mutual agreement of the parties and expressly set forth in a Statement of Work. Splunk does not guarantee that it will be able to meet any additional requested requirements.

B. **\*\*Our Security Practices.\*\*** We implement and follow an enterprise security program, with the policies, plans, and procedures set forth here [[www.splunk.com/prof-serv-isa](http://www.splunk.com/prof-serv-isa)]([www.splunk.com/prof-serv-isa](http://www.splunk.com/prof-serv-isa)). Our Personnel will be subject to the data protection and confidentiality obligations set forth in these General Terms with respect to any of your data that we may have access to in connection with the C&I Services.

C. **\*\*Background Checks.\*\*** For U.S.-based projects, we will not assign an employee to perform C&I Services under a Statement of Work unless we have run the following background check on the employee: Criminal Felony & Misdemeanor; SSN Validation; Federal Criminal; SSN Trace; Employment Report Three (3) Employers; Education Report One (1) Institution; Global Sanctions & Enforcement; Prohibited Parties; Widescreen Plus National Criminal Search.

D. **\*\*Permissions for Access.\*\*** In the event you require any Personnel to sign any waivers, releases, or other documents as a condition to gain access to your premises for performance of the C&I Services (“**\*\*Access Documents\*\***”), you agree: (a) that Personnel who will be required to sign Access Documents will sign on behalf of Splunk; (b) that any additional or conflicting terms in Access Documents with these General Terms will have no effect; and (c) you will pursue any claims for breach of any terms in the Access Documents against Splunk and not the individual signing.

#### 4. **\*\*Your Materials\*\***

We will have no rights in or to any Customer Materials, however you grant us the right to use Customer Materials in order to provide the C&I Services. Nothing in these General Terms will be deemed to transfer to us any ownership of Customer Materials.

#### 5. **\*\*C&I Services Materials and Customizations Unique to You\*\***

A. **\*\*C&I Services Materials.\*\*** The C&I Services we perform (e.g., configuration of our Offerings), and the C&I Services Materials we offer, create, and deliver to you in connection with the C&I Services, are generally applicable to our business, and therefore we require the right to be able to re-use the C&I Services Materials we create for one customer in connection with all of our customers. For the avoidance of doubt, our use of the C&I Services Materials created for you in connection with C&I Services will comply with our ongoing obligations and restrictions with respect to your Customer Materials and your Confidential Information, and we will not identify you in any way in connection with our further use of such C&I Services Materials.

B. **\*\*Customer Owned Work Product.\*\*** However, in the unlikely event that the parties agree that C&I Services Materials for a project are custom work product unique to your business, and not applicable to other customers generally, we will transfer ownership to those agreed C&I Services Materials to you under the applicable Statement of Work. C&I Services Materials must be expressly identified as “**\*\*Customer Owned Work Product\*\***”;

under a Statement of Work for ownership to pass to you. Subject to payment of applicable Fees under the Statement of Work, we hereby assign to you all rights, title and interest (including all Intellectual Property Rights therein) in and to all C&I Services Materials identified as Customer Owned Work Product (but excluding all Splunk Preexisting IP incorporated into the Customer Owned Work Product). At your request and expense, we will assist and cooperate with you in all reasonable respects and will execute documents and take such further acts reasonably requested by you to enable you to acquire, transfer, maintain, perfect, and enforce your ownership rights in such Customer Owned Work Product.

C. **\*\*Our Ownership.\*\*** Subject to your ownership rights in Customer Owned Work Product and Customer Materials, we will own all rights in and to all C&I Services Materials.

D. **\*\*License Rights.\*\*** For those C&I Services Materials that are not Customer Owned Work Product, you will have the right to access and use those C&I Services Materials in connection with your applicable Offerings, and those rights will be of the same scope and duration as your rights to the underlying Offering.

#### 6. **\*\*C&I Services Warranty\*\***

We warrant that the C&I Services will be performed in a good and workmanlike manner consistent with applicable industry standards. This warranty will be in effect for a period of thirty (30) days from the completion of any C&I Services. As your sole and exclusive remedy and our entire liability for any breach of the foregoing warranty, we will, at our option and expense, promptly re-perform any C&I Services that fail to meet this warranty or refund to you the fees paid for the non-conforming C&I Services.

#### 7. **\*\*Your Cooperation\*\***

You acknowledge that your timely provision of (and our access to) your facilities, equipment, assistance, cooperation, data, information and materials from your officers, agents, and employees (the **\*\*Cooperation\*\***) is essential to Splunk's performance of the C&I Services. We will not be liable for any delay or deficiency in performing the C&I Services if you do not provide the necessary Cooperation. As part of the Cooperation, you will (1) designate a project manager or technical lead to liaise with us while we perform the C&I Services; (2) allocate and engage additional resources as may be required to assist us in performing the C&I Services; and (3) making available to us any data, information and any other materials reasonably required by us to perform the C&I Services, including any data, information or materials specifically identified in the Statement of Work.

#### 8. **\*\*Insurance\*\***

Throughout any period of C&I Services we perform for you, we will maintain insurance policies in the types and amounts described below at our own expense:

- Commercial General Liability Insurance with a limit of not less than \$1,000,000 per occurrence and a general aggregate limit of not less than \$2,000,000.

- Business Auto Insurance with a limit of not less than \$1,000,000 combined single limit. Such Insurance will cover liability arising out of **\*\*hired and non-owned\*\*** automobiles.

- Workers Compensation Insurance as required by workers compensation, occupational disease and occupational health and safety laws, statutes, and regulations.

- Technology Errors & Omissions Insurance with a limit of not less than \$3,000,000 per occurrence and general aggregate.

- Umbrella/Excess Insurance with a limit of not less than \$3,000,000 per occurrence and general aggregate.

#### 9. **\*\*Change Order Process\*\***

You may submit written requests to us to change the scope of C&I Services described in a Statement of Work (each such request, a **"\*\*Change Order Request\*\*"**). If we elect to consider a Change Order Request, then we will promptly notify you if we believe that the Change Order Request requires an adjustment to the fees or to the schedule for the performance of the C&I Services. In such event, the parties will negotiate in good faith a reasonable and equitable adjustment to the fees and/or schedule, as applicable. We will continue to perform C&I Services pursuant to the existing Statement of Work and will have no obligation to perform any Change Order Request unless and until the parties have agreed in writing to such an equitable adjustment.

#### 10. **\*\*Expenses\*\***

Unless otherwise specified in the Statement of Work, we will not charge you for our expenses we incur in connection with a Statement of Work. Our daily C&I Services rates are inclusive of any expenses. In the event the parties agree that expenses are reimbursable under a Statement of Work, we will mutually agree on any travel policy and any required documentation for reimbursement.

#### 11. **\*\*Prepaid C&I Services\*\***

Unless otherwise expressly stated in a Statement of Work, all prepaid C&I Services must be redeemed within twelve (12) months from the date of purchase/invoice. At the end of the twelve (12) month term, any remaining pre-paid unused C&I Services will expire; no refunds will be provided for any remaining pre-paid unused C&I Services. Unless otherwise specifically stated in a Statement of Work, Education is invoiced and payable in advance.

#### **### \*\*Configuration and Implementation Services Definitions Exhibit\*\***

**"\*\*C&I**

**Services\*\*"** means the services outlined in the Statement of Work.

**"\*\*C&I Services Materials\*\*"** means the materials and other deliverables that are provided to you as part of the C&I Services, and any materials, technology, know-how and other innovations of any kind that we or our Personnel may create or reduce to practice in the course of performing the C&I Services, including without limitation all improvements or modifications to our proprietary technology, and all Intellectual Property Rights therein.

**"\*\*Customer Materials\*\*"** means the data, information, and materials you provide to us in connection with your use of the C&I Services.

**"\*\*Fees\*\*"** means the fees that are applicable to the C&I Services, as identified in the Statement of

Work.

"\*\*Intellectual Property Rights\*\*" means all worldwide intellectual property rights, including copyrights and other rights in works of authorship; rights in trademarks, trade names, and other designations of source or origin; rights in trade secrets and confidential information; and patents and patent applications.

"\*\*Personnel\*\*" means any employee, consultant, contractor, or subcontractor of Splunk.

"\*\*Splunk Preexisting IP\*\*" means, with respect to any C&I Services Materials, all associated Splunk technology and all Intellectual Property Rights created or acquired: (a) prior to the date of the Statement of Work that includes such C&I Services Materials, or (b) after the date of such Statement of Work but independently of the C&I Services provided under such Statement of Work.

"\*\*Statement of Work\*\*" means the statements of work and/or any and all applicable Orders, that describe the specific services to be performed by Splunk, including any materials and deliverables to be delivered by Splunk.

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# 1.104 google-api-python-client 2.162.0

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Version 2.0, January 2004

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# 1.105 mapstructure

ab69d8d93410fce4361f4912bb1ff88110a81311

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## 1.106 crypto

**b4f1988a35dee11ec3e05d6bf3e90b695fbd8909**

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## 1.107 google-go-cmp

c3ad8435e7bef96af35732bc0789e5a2278c6d5f

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## 1.108 easyjson

**c120ca7ced6051261161ce15e8f1542a4b2567f**

### C

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# 1.122 six 1.17.0

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## 1.123 python-requests 2.32.4

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lib/erl/src/Makefile.am

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For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4  
components:

# Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>

```
#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
 2015-05-02
 Public Domain.
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*/
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
 * This code is Free Software. It may be copied freely, in original or
 * modified form, subject only to the restrictions that (1) the author is
 * relieved from all responsibilities for any use for any purpose, and (2)
 * this copyright notice must
 be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
 */
```

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

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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//
////////////////////////////////////
```

-----  
Codegen template

in t\_html\_generator.h

```
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*
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* http://www.apache.org/licenses/LICENSE-2.0
*
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

-----  
For t\_cl\_generator.cc

```
* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
* Copyright (c) 2006- Facebook
```

## 1.126 @apollo/client 3.14.0

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# 1.127 @splunk/react-ui 4.47.1

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# 1.128 @types/react 17.0.90

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## 1.130 types-lodash 4.17.23

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## 1.131 @splunk/ui-utils 1.12.0

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## 1.132 gopkg-in-mgo-v2 a6b53ec6cb22

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mgo - MongoDB driver for Go

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## 1.134 mock

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### 3

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#
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first address should be used in the submit logs and
that the second address should be recognized as the
same person when interacting with Rietveld.

Please keep the list sorted.

Aaron Jacobs <jacobsa@google.com> <aaronjjacobs@gmail.com>
Alex Reece <awreece@gmail.com>
David Symonds <dsymonds@golang.org>
Ryan Barrett <ryanb@google.com>
package empty_interface

//go:generate mockgen -package empty_interface -destination mock.go -source input.go -
copyright_file=mock_copyright_header

type Empty interface{}
```

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//

// Code generated by MockGen. DO NOT EDIT.

// Source: input.go

// Package empty\_interface is a generated GoMock package.

package empty\_interface

```
import (
 gomock "github.com/golang/mock/gomock"
)
```

// MockEmpty is a mock of Empty interface.

```
type MockEmpty struct {
 ctrl *gomock.Controller
 recorder *MockEmptyMockRecorder
}
```

// MockEmptyMockRecorder is the mock recorder for MockEmpty.

```
type MockEmptyMockRecorder struct {
 mock *MockEmpty
}
```

// NewMockEmpty creates a new mock instance.

```
func NewMockEmpty(ctrl *gomock.Controller) *MockEmpty {
 mock := &MockEmpty{ctrl: ctrl}
 mock.recorder = &MockEmptyMockRecorder{mock}
 return mock
}
```

// EXPECT returns an object that allows the caller to indicate expected use.

```
func (m *MockEmpty) EXPECT() *MockEmptyMockRecorder
{
 return m.recorder
}
```

# 1.135 jaeger-lib

19c1561a544f618cb465213b043f67103c09107

b

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\*/

/\*\*

\* Returns an array containing all of the elements in this deque, in  
\* proper sequence (from first to last element).

\*

\* <p>The returned array will be "safe" in that no references to it are  
\* maintained by this deque. (In other words, this method must allocate  
\* a new array). The caller is thus free to modify the returned array.

\*

\* <p>This method acts as bridge between array-based and collection-based  
\* APIs.

\*

\* @return an array containing all of the elements in this deque

\*/

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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/annotations/NotThreadSafe.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/annotations/ThreadSafe.java

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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/DefaultConnectionPool.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/gejson/codecs/NamedCoordinateReferenceSystemCodec.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/ChangeStreamBatchCursor.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/ConnectionPoolSettings.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/ValidationOptions.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/gejson/codecs/MultiLineStringCodec.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/Facet.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/DnsSrvRecordInitializer.java

- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/IndexOptions.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/PowerOfTwoBufferPool.java
- \* /mongodb-driver-core-3-12-7-sources-1-
- jar/com/mongodb/client/model/changestream/ChangeStreamDocument.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/QueryBatchCursor.java
- \*
- /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/binding/AsyncSingleConnectionReadBinding.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/ProtocolHelper.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/MongoConfigurationException.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/DBRefCodecProvider.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/InternalConnectionInitializer.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/BsonDocumentWrapperHelper.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/management/NullMBeanServer.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/event/ConnectionAddedEvent.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/binding/ClusterAwareReadWriteBinding.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/ByteBufferBsonOutput.java
- \*
- /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/Indexes.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/selector/LatencyMinimizingServerSelector.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/BaseWriteOperation.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/QueryMessage.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/MapReduceHelper.java
- \* /mongodb-driver-core-3-12-7-sources-1-
- jar/com/mongodb/connection/AsynchronousSocketChannelStreamFactory.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/DefaultDnsSrvRecordMonitor.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/BasicDBList.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/event/ConnectionPoolClosedEvent.java
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- \*
- /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/DeleteProtocol.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/BSONTimestampCodec.java
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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/bulk/BulkWriteError.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/ValidationAction.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/DefaultServerMonitor.java
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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/ConnectionFactory.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/ServerType.java
- \*
- /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/AsyncConnection.java
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- \* /mongodb-driver-core-3-12-7-sources-1-



```

jar/com/mongodb/internal/connection/ClusterClockAdvancingSessionContext.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/ProtocolExecutor.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/ReplyHeader.java
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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/MongoClientException.java
*
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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/Field.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/TaggableReadPreference.java
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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/StreamFactory.java
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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/operation/SyncOperations.java
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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/CreateViewOperation.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/MapReduceWithInlineResultsOperation.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/geojson/package-info.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/binding/ReferenceCounted.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/management/package-info.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/changestream/package-info.java
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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/gridfs/codecs/package-info.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/event/ServerHeartbeatStartedEvent.java
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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/CommandProtocol.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/management/ConnectionPoolStatisticsMBean.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/binding/SingleServerBinding.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/MapReduceAction.java
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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/WriteError.java
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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/AggregateOperation.java
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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/AsyncOperationExecutor.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/geojson/MultiPolygon.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/CompressedHeader.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/InsertOneOptions.java
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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/InternalConnection.java
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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/CreateUserOperation.java
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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/ClusterableServerFactory.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/geojson/Position.java
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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/CollationCaseFirst.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/bulk/BulkWriteResult.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/result/package-info.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/binding/ReadBinding.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/OrderBy.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/async/package-info.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/SocketStream.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/DescriptionHelper.java
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- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/WriteConcernResult.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/HexUtils.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/gridfs/model/GridFSUploadOptions.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/QueryProtocol.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/validator/CollectibleDocumentFieldNameValidator.java
- \*
- /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/FindOneAndUpdateOptions.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/SaslAuthenticator.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/GetMoreProtocol.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/ListIndexesOperation.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/AuthenticationMechanism.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/BulkWriteBatchCombiner.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/event/ConnectionOpenedEvent.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/FindOneAndDeleteOptions.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/Projections.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/event/ClusterListener.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/UserOperationHelper.java
- \*
- /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/ClusterConnectionMode.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/CommandResultCallback.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/CollationMaxVariable.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/FindOptions.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/WriteModel.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/Stream.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/QueryHelper.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/SniSslHelper.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/package-info.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/ServerDescription.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/MongoSocketOpenException.java
- \*
- /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/AsyncQueryBatchCursor.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/ConnectionDescription.java
- \* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/CurrentOpOperation.java

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* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/ParallelCollectionScanOperation.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/Compressor.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/BsonArrayWrapper.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/event/ConnectionPoolOpenedEvent.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/RenameCollectionOperation.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/EstimatedDocumentCountOptions.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/Sorts.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/FindAndModifyHelper.java
*
/mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/ClientEncryptionSettings.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/LevelCountingBsonWriter.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/connection/ClusterId.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/operation/IndexHelper.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/DnsMultiServerCluster.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/SingleServerCluster.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/binding/AsyncClusterBinding.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/CreateIndexesOperation.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/CommandResultDocumentCodec.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/FindAndReplaceOperation.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/async/AsyncAggregateResponseBatchCursor.java
*
/mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/gridfs/codecs/GridFSFileCodec.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/CommandResultCodecProvider.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/ClusterableServer.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/CursorHelper.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/bulk/UpdateRequest.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/TextSearchOptions.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/event/ClusterClosedEvent.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/client/model/DeleteOneModel.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/event/ConnectionPoolEventMulticaster.java
* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/DefaultConnectionFactory.java
*
/mongodb-driver-core-3-12-7-sources-1-
jar/com/mongodb/internal/binding/AsyncClusterAwareReadWriteBinding.java
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\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/lang/package-info.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/ReadConcernAwareNoOpSessionContext.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/TransactionOptions.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/lang/NonNull.java

\*

/mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/OperationReadConcernHelper.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/ReadConcernHelper.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/TransactionOperation.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/CommitTransactionOperation.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/lang/NonNullApi.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/lang/Nullable.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/operation/AbortTransactionOperation.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/operation/ServerVersionHelper.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/operation/WriteConcernHelper.java

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- \* <https://github.com/marianobarrios/tls-channel>
- \*/
- /\*\*
- \* Writes a sequence of bytesProduced to this channel from a subsequence of the
  - \* given buffers.
  - \*
  - \* <p>
  - \* See {@link GatheringByteChannel#write(ByteBuffer[], int, int)} for
- more
- \* details of the meaning of this signature.
  - \*
  - \* <p>
  - \* This method behaves slightly different than the interface specification,
  - \* with respect to non-blocking responses, see {@link #write(ByteBuffer)}
  - \* for more details.
  - \*
  - \* @param srcs The buffers from which bytesProduced are to be retrieved
  - \* @param offset The offset within the buffer array of the first buffer from
  - \* which bytesProduced are to be retrieved; must be non-negative and no
  - \* larger than <tt>srcs.length</tt>
  - \* @param length The maximum number of buffers to be accessed; must be
  - \* non-negative and no larger than <tt>srcs.length</tt>
  - \* &nbsp;&nbsp;&nbsp;<tt>-&nbsp;&nbsp;&nbsp;offset</tt>
  - \* @return The number of bytesProduced written, contrary to the behavior specified
  - \* in {@link ByteChannel}, this method never returns 0, but throws
  - \* {@link WouldBlockException}
  - \* @throws IndexOutOfBoundsException If
- the preconditions on the <tt>offset</tt> and
- \* <tt>length</tt> parameters do not hold
  - \* @throws WouldBlockException if the channel is in non-blocking mode and the IO operation
  - \* cannot be completed immediately
  - \* @throws NeedsTaskException if the channel is not configured to run tasks automatically
  - \* and a task needs to be executed to complete the operation
  - \* @throws SSLException if the {@link SSLEngine} throws a SSLException
  - \* @throws IOException if the underlying channel throws an IOException
- \*/
- /\*\*
- \* Reads a sequence of bytesProduced from this channel into a subsequence of the
  - \* given buffers.
  - \*
  - \* <p>
  - \* See {@link ScatteringByteChannel#read(ByteBuffer[], int, int)} for more

```

* details of the meaning of this signature.
*
* <p>
* This method behaves slightly different
than the interface specification,
* with respect to non-blocking responses, see {@link #read(ByteBuffer)} for
* more details.
*
* @param dsts The buffers into which bytesProduced are to be transferred
* @param offset The offset within the buffer array of the first buffer into
* which bytesProduced are to be transferred; must be non-negative and no
* larger than <tt>dsts.length</tt>
* @param length The maximum number of buffers to be accessed; must be
* non-negative and no larger than <tt>dsts.length</tt>
* <tt>offset</tt>
* @return The number of bytesProduced read, or <tt>-1</tt> if the channel has
* reached end-of-stream; contrary to the behavior specified in
* {@link ByteChannel}, this method never returns 0, but throws
* {@link WouldBlockException}
* @throws IndexOutOfBoundsException If the preconditions on the <tt>offset</tt> and
* <tt>length</tt> parameters do not hold
* @throws WouldBlockException if the channel is in non-blocking mode and the IO operation
* cannot be completed immediately
* @throws NeedsTaskException if the channel is not configured to run tasks automatically
* and a task needs to be executed to complete the operation
* @throws SSLException if the {@link SSLEngine} throws a SSLException
* @throws IOException if the underlying channel throws an IOException
*/

```

Found in path(s):

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/tlschannel/TlsChannel.java  
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\* <https://github.com/marianobarrios/tls-channel>

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\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/util/TlsChannelCallbackException.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/impl/TlsChannelImpl.java

\*

/mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/tlschannel/TlsChannelBuilder.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/tlschannel/TrackingAllocator.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/WouldBlockException.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/ExtendedAsynchronousByteChannel.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferUtil.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/tlschannel/BufferAllocator.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/NeedsReadException.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/ByteBufferSet.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannel.java

\*

/mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/tlschannel/ClientTlsChannel.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/NeedsTaskException.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/tlschannel/util/Util.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/NeedsWriteException.java

\* /mongodb-driver-core-3-12-7-sources-1-jar/com/mongodb/internal/connection/tlschannel/impl/BufferHolder.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/async/AsynchronousTlsChannelGroup.java

\* /mongodb-driver-core-3-12-7-sources-1-

jar/com/mongodb/internal/connection/tlschannel/TlsChannelFlowControlException.java

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lib/erl/src/Makefile.am

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-----  
For the aclocal/ax\_boost\_base.m4 and contrib/fb303/aclocal/ax\_boost\_base.m4  
components:

```
Copyright (c) 2007 Thomas Porschberg <thomas@randspringer.de>
#
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```

-----  
For the lib/nodejs/lib/thrift/json\_parse.js:

```
/*
 json_parse.js
 2015-05-02
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 */
```

(By Douglas Crockford <douglas@crockford.com>)

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
/* socketpair.c
 * Copyright 2007 by Nathan C. Myers <ncm@cantrip.org>; some rights reserved.
 * This code is Free Software. It may be copied freely, in original or
 * modified form, subject only to the restrictions that (1) the author is
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 * this copyright notice must
 * be retained, unchanged, in its entirety. If
 * for any reason the author might be held responsible for any consequences
 * of copying or use, license is withheld.
 */
```

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

```
// ISO C9x compliantstdint.h for Microsoft Visual Studio
// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
// Copyright (c) 2006-2008 Alexander Chemeris
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```

```
//
```

```
////////////////////////////////////
```

```

Codegen template
```

```
in t_html_generator.h
```

```
* Bootstrap v2.0.3
```

```
*
```

```
* Copyright 2012 Twitter, Inc
```

```
* Licensed under the Apache License v2.0
```

```
* http://www.apache.org/licenses/LICENSE-2.0
```

```
*
```

```
* Designed and built with all the love in the world @twitter by @mdo and @fat.
```

```

For t_cl_generator.cc
```

```
* Copyright (c) 2008- Patrick Collison <patrick@collison.ie>
```

```
* Copyright (c) 2006- Facebook
```

## 1.143 compress

48597ba06f525884d780f6ff04fb919ca52c8d57

### 1.143.1 Available under license :

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## 1.146 grpcio-tools 1.56.0

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**9**

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# 1.149 jaeger-client-go

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jar/io/grpc/netty/NettyChannelProvider.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyClientHandler.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyClientStream.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyClientTransport.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyReadableBuffer.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyServer.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyServerBuilder.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyServerCredentials.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyServerHandler.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
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/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyServerStream.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/NettyServerTransport.java/\*  
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/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/ProtocolNegotiationEvent.java/\*  
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/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-  
jar/io/grpc/netty/SendResponseHeadersCommand.java/\*  
/opt/cola/permits/2709114608\_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-

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jar/io/grpc/netty/StreamIdHolder.java/*
/opt/cola/permits/2709114608_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-
jar/io/grpc/netty/UdsNameResolver.java/*
/opt/cola/permits/2709114608_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-
jar/io/grpc/netty/UdsNameResolverProvider.java/*
/opt/cola/permits/2709114608_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-
jar/io/grpc/netty/UdsNettyChannelProvider.java/*
/opt/cola/permits/2709114608_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-
jar/io/grpc/netty/UnhelpfulSecurityProvider.java/*
/opt/cola/permits/2709114608_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-jar/io/grpc/netty/Utils.java/*
/opt/cola/permits/2709114608_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-
jar/io/grpc/netty/WriteBufferingAndExceptionHandler.java/*
/opt/cola/permits/2709114608_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-
jar/io/grpc/netty/WriteQueue.java/*
/opt/cola/permits/2709114608_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-
jar/io/grpc/netty/X509AuthorityVerifier.java/*
/opt/cola/permits/2709114608_1768807222.6385398/0/grpc-netty-1-75-0-2869354846-jar/io/grpc/netty/package-
info.java/*
```

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\* /grpc-netty-1-75-0-2869354846-jar/io/grpc/netty/AbstractHttp2Headers.java

# 1.151 [github.com/dropbox/godropbox](https://github.com/dropbox/godropbox)

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## 1.152 [github.com/youmark/pkcs8](https://github.com/youmark/pkcs8)

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## 1.154 oauth

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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.158 ts-jest-mock 1.1.33

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* /re2j-1-7-sources-3-jar/com/google/re2j/Simplify.java
* /re2j-1-7-sources-3-jar/com/google/re2j/RE2.java
* /re2j-1-7-sources-3-jar/com/google/re2j/CharGroup.java
* /re2j-1-7-sources-3-jar/com/google/re2j/CharClass.java
* /re2j-1-7-sources-3-jar/com/google/re2j/Compiler.java
* /re2j-1-7-sources-3-jar/com/google/re2j/UnicodeTables.java
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* /re2j-1-7-sources-3-jar/com/google/re2j/MachineInput.java
* /re2j-1-7-sources-3-jar/com/google/re2j/Inst.java
* /re2j-1-7-sources-3-jar/com/google/re2j/Pattern.java

```

## 1.162 cli

7656c5fb838ca8a6febca43100147d317b544fd

### 3

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## 1.163 [github.com/xrash/smetrics](https://github.com/xrash/smetrics)

### 039620a65673

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### 9559b037e79ad673c71f6ef7c732c00949014cd

### 2

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## 1.166 use-debounce 5.2.1

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## 1.169 ginkgo

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## 1.170 jetty-servlet-handling 9.4.57.v20241219



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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

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

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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## Oracle OpenJDK

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

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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## OW2

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

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

## Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

## MortBay

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

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.171 go-zookeeper 2164a8ac840e

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## 1.173 scram

# ef29d5590bacede26100601bb2f7d9bb08bacc7

## 5

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## 1.175 io-grpc-grpc-stub 1.75.0

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```
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 */
```

Found in path(s):

`*/grpc-stub-1-75-0-2869354846-jar/io/grpc/stub/AbstractAsyncStub.java`

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`/opt/cola/permits/2709473640_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-jar/io/grpc/stub/AbstractBlockingStub.java/*`

`/opt/cola/permits/2709473640_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-`

jar/io/grpc/stub/AbstractFutureStub.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/AbstractStub.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/BlockingClientCall.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/CallStreamObserver.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/ClientCallStreamObserver.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/ClientCalls.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/ClientResponseObserver.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/InternalClientCalls.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/MetadataUtils.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/ServerCallStreamObserver.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/ServerCalls.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/StreamObserver.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/StreamObservers.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/annotations/GrpcGenerated.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-  
jar/io/grpc/stub/annotations/RpcMethod.java/\*  
/opt/cola/permits/2709473640\_1768807224.4341831/0/grpc-stub-1-75-0-2869354846-jar/io/grpc/stub/package-  
info.java/\*

Found  
in path(s):  
\*

# 1.176 [github.com/signalfx/golib/v3](https://github.com/signalfx/golib/v3) v3.3.44

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094a6fe78b3ca888297d090185cdf30f0e42e157

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# 1.178 [github.com/durmaze/gobank](https://github.com/durmaze/gobank) aa169ba28e80

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  - \* xds/third\_party/udpa

# 1.180 [github.com/splunk/splunk-cloud-sdk-go](https://github.com/splunk/splunk-cloud-sdk-go) v1.12.0-beta.5

## 1.180.1 Available under license :

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# 1.181 slf4j-api-module 2.0.7

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## 1.182 caffeine-cache 2.8.5

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Found in path(s):

```
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PWA.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSAR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILSMSA.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSMWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLA.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSWR.java
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* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSMSAWR.java
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/caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FDWMS.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILMW.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PWAMS.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIAR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSMSR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILMWWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISMS.java
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- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FWMS.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLSMSAR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSWRMS.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSSMSAR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FSAWR.java
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- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSSMSAWR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIMSW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISMWAWR.java
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- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FDAR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLSR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLMSA.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSMW.java
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- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FDAWMW.java
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- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSAWR.java
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- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMSW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILSWR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FWWRMW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLWR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FDAMW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FDAWRMW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SISMSW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSAWMW.java
- \*
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- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SIMSW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILMSW.java
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- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLMSAR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSMSR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMWA.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLR.java

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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILSMSWR.java

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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILS.java  
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/caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSMWAR.java
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/caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSWRMW.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLSMW.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSMSAR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLMSAWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSSMWWR.java

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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSMWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSWMW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PDAWRMW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PDAWMW.java  
 \*  
 /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILMWWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PWWRMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSMSA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSSA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SISMSA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSMWAR.java  
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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PWRMW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FDARMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILMWW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLSMSR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLSMWAWR.java  
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 /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILMSAW.java  
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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SISMWAW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLAWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSAR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PDRMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILMSA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSMWW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMSA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLSMSAW.java

\* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FSWMW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIMWA.java  
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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSMSW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FSAMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SISAW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILMSWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SIMSA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSMSAR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSMW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PDR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIMWW.java  
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 /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLSMSW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PDAWMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FDAWMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SIA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILAR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSSMW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIMSAR.java  
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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SISAWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSS.java  
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 /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSMSWR.java  
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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSAMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILSMWAR.java  
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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSSMSAW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSAR.java



- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILMSAR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FWWMS.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIMW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SIMSR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILSMWW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/LocalCacheFactory.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSMWAWR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLSMSR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMSW.java
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- /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PDWRMS.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FWAWRMS.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILSR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FWWR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLMW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FWRMW.java
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- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMSAR.java
- \*
- /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSWR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SISMWA.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILSMWWR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSS.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSWR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILMW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FWWRMS.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSMSA.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILMSAR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLMSWR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLSA.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FDW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSMWW.java
- \*
- /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLSMWAR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLSAW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSMWW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILMWAW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSARMW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SIR.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLAW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISMWW.java
- \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FWAWMS.java

\* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMSA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSMWA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLSMWAW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIMWAWR.java  
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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FSARMW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSAWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILSMSAW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FSWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILSW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISMSAW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SIMWA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSSMWAR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PWMS.java  
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 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSMWAW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSMWA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSMW.R.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SIMWAWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILMWAWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FDAMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PWWMW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLSW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FSA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMWW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSMSAR.java  
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 /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISAWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSAR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSMWAWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLSAW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PWW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILMWA.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PSAWRMW.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLSWR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISAR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISMSAR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSMS.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLSMSAR.java  
 \* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FD.java  
 \*

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/caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PDMS.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIAW.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FWRMS.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FSRMS.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLMWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SISA.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILMS.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMSWWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSMWWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISAW.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/PWAWRMW.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMSWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLMWAW.java
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/caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WISMW.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WIMSA.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSLSMSWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SILSMSA.java
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* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLMSR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SIMWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SSSMSWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WSLSMSAWR.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WILMSR.java
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```

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*/

```

Found in path(s):

```

* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/CacheWriter.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/package-info.java

```

```

* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/stats/GuardedStatsCounter.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/LocalAsyncLoadingCache.java
*
/caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Node.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/package-info.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/stats/package-info.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/BoundedBuffer.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Buffer.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/References.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WriteThroughEntry.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/SerializationProxy.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/LocalManualCache.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/LocalLoadingCache.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/FrequencySketch.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/LocalCache.java
*
/caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/base/package-info.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Async.java
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```

```

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```

Found in path(s):

```

* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/RemovalCause.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/AsyncLoadingCache.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Cache.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/UnboundedLocalCache.java
*
/caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Weigher.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/base/UnsafeAccess.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/CacheLoader.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/WriteOrderDeque.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Caffeine.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/RemovalListener.java

```

```

* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/AbstractLinkedDeque.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/AccessOrderDeque.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/SingleConsumerQueue.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Policy.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/stats/StatsCounter.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/stats/ConcurrentStatsCounter.java
*
/caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/LoadingCache.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/BoundedLocalCache.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/stats/CacheStats.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/LinkedDeque.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Ticker.java
* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/stats/DisabledStatsCounter.java
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```

* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/StripedBuffer.java
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\* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Expiry.java  
\* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/TimerWheel.java

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\* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/AsyncCache.java  
\* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/LocalAsyncCache.java

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\* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Scheduler.java  
\* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/Pacer.java  
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\* /caffeine-2-8-5-sources-jar/com/github/benmanes/caffeine/cache/MpscGrowArrayQueue.java

# 1.183 opentelemetry-go

1bda06288e6df99bdb0705c4ca4870b1f2c82a1

6

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```

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```
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 */
(By Douglas Crockford <douglas@crockford.com>)
```

-----  
For lib/cpp/src/thrift/windows/SocketPair.cpp

```
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```
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// Based on ISO/IEC 9899:TC2 Committee draft (May 6, 2005) WG14/N1124
//
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*
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[1](#)

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# 1.186 [github.com/wadey/gocovmerge](https://github.com/wadey/gocovmerge) b5bfa59ec0ad

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## 1.187 tomb-v1

dd632973f1e7218eb1089048e0798ec9ae7dceb  
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tomb - support for clean goroutine termination in Go.

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## 1.188 @types/styled-components 5.1.36

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## 1.189 libinjection-go

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## 1.190 backoff

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## 1.191 logr

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## 1.193 zap

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# 1.194 go-genproto

67e5cbc046fddc8362f3cdb8d7897dfc780fbb1

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## 1.195 go-md2man

d97078115282836e16d0dca10b4b42ce60fc70e

## 6

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## 1.196 mongodb-driver 3.12.7

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Found in path(s):

- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/MongoIterable.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/MongoCursor.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MappingIterable.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoClientImpl.java
- \*
- /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/SimpleMongoClient.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/package-info.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/MapReduceIterable.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/DistinctIterableImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoMappingCursor.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/MongoDatabase.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/AggregateIterable.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/ClientSessionBinding.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/vault/ClientEncryption.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/ListDatabasesIterable.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/package-info.java
- \*
- /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/CryptConnection.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/CommandMarker.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/GridFSBucketImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoChangeStreamCursorImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/MongoChangeStreamCursor.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/KeyManagementService.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Crypt.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoClientDelegate.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoBatchCursorAdapter.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/DistinctIterable.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/AggregateIterableImpl.java
- \*
- /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/MongoCollection.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/GridFSFindIterable.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Crypts.java



```

* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/MongoClients.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/GridFSFindIterableImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/GridFSDownloadStream.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/FindIterableImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/ListIndexesIterableImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MapReduceIterableImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/vault/package-info.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoCollectionImpl.java
*
/mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/ClientEncryptionImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/MongoClientFactory.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/KeyRetriever.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/CryptBinding.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/GridFSUploadStream.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/OperationExecutor.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/SimpleMongoClients.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/ListDatabasesIterableImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/CollectionInfoRetriever.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoDatabaseImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/GridFSUploadStreamImpl.java
*
/mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/ListCollectionsIterableImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/MongoClient.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/GridFSDownloadStreamImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/ListIndexesIterable.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/FindIterable.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/GridFSBuckets.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/ChangeStreamIterableImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/ListCollectionsIterable.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/ChangeStreamIterable.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoIterableImpl.java
* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/gridfs/GridFSBucket.java
*
/mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/vault/ClientEncryptions.java
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- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8ListIndexesIterableImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8AggregateIterableImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/ClientSession.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoIterableFactory.java
- \*
- /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/package-info.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8ForEachHelper.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/ClientSessionClock.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8MapReduceIterableImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/FallbackMongoIterableFactory.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8DistinctIterableImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8FindIterableImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/ClientSessionImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/MongoIterables.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8MongoIterableFactory.java
- \*
- /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8ListCollectionsIterableImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/TransactionBody.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8ListDatabasesIterableImpl.java
- \* /mongodb-driver-sync-3-12-7-sources-jar/com/mongodb/client/internal/Java8ChangeStreamIterableImpl.java

## 1.197 tools

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0

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```
package licenses_test
```

```
import (
```

```
 "bytes"
```

```
 "os"
```

```
 "os/exec"
```

```
 "runtime"
```

```
 "testing"
```

```
 "golang.org/x/tools/internal/testenv"
```

```
)
```

```
func TestLicenses(t *testing.T) {
```

```
 // License text differs for older Go versions because staticcheck or gofumpt
```

```
 // isn't supported for those versions, and this fails for unknown, unrelated
```

```
 // reasons on Kokoro legacy CI.
```

```
 testenv.NeedsGo1Point(t, 21)
```

```
 if runtime.GOOS != "linux" && runtime.GOOS != "darwin" {
```

```
 t.Skip("generating licenses only works on Unixes")
```

```
 }
```

```
 tmp, err := os.CreateTemp("", "")
```

```
 if err != nil {
```

```
 t.Fatal(err)
```

```
 }
```

```
 tmp.Close()
```

```
 if out, err := exec.Command("./gen-licenses.sh", tmp.Name()).CombinedOutput(); err != nil {
```

```
 t.Fatalf("generating licenses failed: %q, %v", out, err)
```

```
 }
```

```

got, err := os.ReadFile(tmp.Name())
if err != nil {
 t.Fatal(err)
}
want, err := os.ReadFile("licenses.go")
if
err != nil {
 t.Fatal(err)
}
if !bytes.Equal(got, want) {
 t.Error("combined license text needs updating. Run: `go generate ./internal/licenses` from the gopls module.")
}
}
}
// Copyright 2020 The Go Authors. All rights reserved.
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```

```

//go:generate ./gen-licenses.sh licenses.go
package licenses

```

```

const Text = `
-- github.com/BurntSushi/toml COPYING --

```

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```

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```

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```
,
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```

package copyright

```
import (
 "strings"
 "testing"
)

func TestToolsCopyright(t *testing.T) {
 files, err := checkCopyright("..")
 if err != nil {
 t.Fatal(err)
 }
 if len(files) > 0 {
 t.Errorf("The following files are missing copyright notices:\n%s", strings.Join(files, "\n"))
 }
}

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// Package copyright checks that files have the correct copyright notices.
```

package copyright

```
import (
 "go/ast"
 "go/parser"
 "go/token"
 "io/fs"
 "os"
 "path/filepath"
 "regexp"
 "strings"
)
```

```
func checkCopyright(dir string) ([]string, error) {
 var files []string
 err := filepath.WalkDir(dir, func(path string, d fs.DirEntry, err error) error {
 if err != nil {
 return err
 }
 if d.IsDir() {
 // Skip directories like ".git".
 if strings.HasPrefix(d.Name(), ".") {
 return filepath.SkipDir
 }
 // Skip any directory that starts with an underscore, as the go
 // command would.
 if strings.HasPrefix(d.Name(), "_") {
 return filepath.SkipDir
 }
 }
 return nil
 })
 needsCopyright, err := checkFile(dir, path)
 if err != nil {
 return err
 }
 if needsCopyright {
 files = append(files, path)
 }
 return nil
}
```

var copyrightRe = regexp.MustCompile(`Copyright \d{4} The Go Authors. All rights reserved.  
Use of this source code is governed by a BSD-style  
license that can be found in the LICENSE file.`)



```

func checkFile(toolsDir, filename string) (bool, error) {
 // Only check Go files.
 if !strings.HasSuffix(filename, ".go") {
 return false, nil
 }
 // Don't check testdata files.
 normalized := strings.TrimPrefix(filepath.ToSlash(filename), filepath.ToSlash(toolsDir))
 if strings.Contains(normalized, "/testdata/") {
 return false, nil
 }
 // goyacc is the only file with a different copyright header.
 if strings.HasSuffix(normalized, "cmd/goyacc/yacc.go") {
 return false, nil
 }
 content, err := os.ReadFile(filename)
 if err != nil {
 return false, err
 }
 fset := token.NewFileSet()
 parsed, err := parser.ParseFile(fset, filename, content, parser.ParseComments)
 if err != nil {
 return false, err
 }
 // Don't require headers on generated files.
 if isGenerated(fset,
 parsed) {
 return false, nil
 }
 shouldAddCopyright := true
 for _, c := range parsed.Comments {
 // The copyright should appear before the package declaration.
 if c.Pos() > parsed.Package {
 break
 }
 if copyrightRe.MatchString(c.Text()) {
 shouldAddCopyright = false
 break
 }
 }
 return shouldAddCopyright, nil
}

// Copied from golang.org/x/tools/gopls/internal/golang/util.go.
// Matches cgo generated comment as well as the proposed standard:
//
// https://golang.org/s/generatedcode
var generatedRx = regexp.MustCompile(`// .*DO NOT EDIT\.`)

```

```

func isGenerated(fset *token.FileSet, file *ast.File) bool {
 for _, commentGroup := range file.Comments {
 for _, comment := range commentGroup.List {
 if matched := generatedRx.MatchString(comment.Text); !matched {
 continue
 }
 // Check if comment is at the beginning of the line in source.
 if pos := fset.Position(comment.Slash); pos.Column == 1 {
 return true
 }
 }
 }
 return false
}

```

## 1.198 mod

**aa51b25a4485b19ca64f578bad6fa40229e7598**

## 4

### 1.198.1 Available under license :

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# 1.199 github.com/splunk/go-dependencies

## v1.0.3

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```

Found in path(s):

```
* /go-dependencies-08edf8a4336e41901604e18eb66a35fbc2333c38-zip/go-dependencies-
08edf8a4336e41901604e18eb66a35fbc2333c38/util/parsing.go
* /go-dependencies-08edf8a4336e41901604e18eb66a35fbc2333c38-zip/go-dependencies-
08edf8a4336e41901604e18eb66a35fbc2333c38/util/errors.go
```

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Found in path(s):

\*/go-dependencies-08edf8a4336e41901604e18eb66a35fbc2333c38-zip/go-dependencies-08edf8a4336e41901604e18eb66a35fbc2333c38/util/jsonx.go

## 1.200 io-grpc-grpc-protobuf 1.54.2

### 1.200.1 Available under license :

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 */
```

Found in path(s):

\*/grpc-protobuf-1-54-2-sources-jar/io/grpc/protobuf/ProtoMethodDescriptorSupplier.java  
\*/grpc-protobuf-1-54-2-sources-jar/io/grpc/protobuf/StatusProto.java  
\*/grpc-protobuf-1-54-2-sources-jar/io/grpc/protobuf/ProtoServiceDescriptorSupplier.java  
\*/grpc-protobuf-1-54-2-sources-jar/io/grpc/protobuf/package-info.java

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\*/

Found in path(s):

\* /grpc-protobuf-1-54-2-sources-jar/io/grpc/protobuf/ProtoUtils.java

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Found in path(s):

\* /grpc-protobuf-1-54-2-sources-jar/io/grpc/protobuf/ProtoFileDescriptorSupplier.java

## 1.201 bson 3.12.7

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Found in path(s):

\* /bson-3-12-7-sources-1-jar/org/bson/assertions/Assertions.java

\* /bson-3-12-7-sources-1-jar/org/bson/util/AbstractCopyOnWriteMap.java

\* /bson-3-12-7-sources-1-jar/org/bson/util/CopyOnWriteMap.java

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Found in path(s):

\* /bson-3-12-7-sources-1-jar/org/bson/BSONObject.java

\* /bson-3-12-7-sources-1-jar/org/bson/json/JsonJavaScriptConverter.java

\* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PojoCodec.java

\* /bson-3-12-7-sources-1-jar/org/bson/BsonNumber.java

\* /bson-3-12-7-sources-1-jar/org/bson/types/Symbol.java

\* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonInt64Converter.java

\*

/bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonRegularExpressionConverter.java

\* /bson-3-12-7-sources-1-jar/org/bson/json/JsonStringConverter.java

\* /bson-3-12-7-sources-1-jar/org/bson/BsonValue.java

\* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonNullCodec.java

\* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/InstanceCreator.java

\* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonStringCodec.java

\* /bson-3-12-7-sources-1-jar/org/bson/codecs/BinaryCodec.java

\* /bson-3-12-7-sources-1-jar/org/bson/io/package-info.java

\* /bson-3-12-7-sources-1-jar/org/bson/util/ComputingMap.java

\* /bson-3-12-7-sources-1-jar/org/bson/codecs/NumberCodecHelper.java

\* /bson-3-12-7-sources-1-jar/org/bson/codecs/AtomicBooleanCodec.java

\* /bson-3-12-7-sources-1-jar/org/bson/io/BasicOutputBuffer.java

\* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonDecimal128Converter.java

\* /bson-3-12-7-sources-1-jar/org/bson/internal/Base64.java

\*

```

/bson-3-12-7-sources-1-jar/org/bson/ByteBuf.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonInt64Codec.java
* /bson-3-12-7-sources-1-jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/MapCodecProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonType.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ShellDecimal128Converter.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ShellObjectIdConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonDecimal128.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonMinKeyCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/UuidRepresentation.java
* /bson-3-12-7-sources-1-jar/org/bson/types/CodeWScope.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonTimestampCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PojoCodecImpl.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/InstanceCreatorImpl.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonScanner.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/OverridableUuidRepresentationCodec.java
*
/bson-3-12-7-sources-1-jar/org/bson/codecs/SymbolCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/configuration/package-info.java
* /bson-3-12-7-sources-1-jar/org/bson/BasicBSONCallback.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/configuration/CodecProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/EnumPropertyCodecProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonWriterSettings.java
* /bson-3-12-7-sources-1-jar/org/bson/BasicBSONObject.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonBuffer.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/UuidCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/diagnostics/JULLogger.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonObjectIdConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/BSONCallback.java
* /bson-3-12-7-sources-1-jar/org/bson/BSONDecoder.java
*
/bson-3-12-7-sources-1-jar/org/bson/codecs/Encoder.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BigDecimalCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/UuidCodecProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/json/LegacyExtendedJsonRegularExpressionConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/jsr310/DateTimeBasedCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/ValueCodecProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonNullConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/types/Code.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BooleanCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/EmptyBSONCallback.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PojoCodecProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonInt32Converter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/DecoderContext.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonBinaryWriter.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonElement.java
*

```

```

/bson-3-12-7-sources-1-jar/org/bson/internal/Optional.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonTypeCodecMap.java
* /bson-3-12-7-sources-1-jar/org/bson/internal/LazyCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonBinaryConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonMaximumSizeExceededException.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonSerializationException.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/UuidCodecHelper.java
* /bson-3-12-7-sources-1-jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/ConventionAnnotationImpl.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonBooleanCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/DocumentCodecProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/BSONException.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/MinKeyCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonBooleanConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/types/Decimal128.java
*
/bson-3-12-7-sources-1-jar/org/bson/codecs/ShortCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/json/DateTimeFormatter.java
* /bson-3-12-7-sources-1-jar/org/bson/diagnostics/package-info.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonDbPointer.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonBinaryReader.java
* /bson-3-12-7-sources-1-jar/org/bson/NoOpFieldNameValidator.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/EncoderContext.java
* /bson-3-12-7-sources-1-jar/org/bson/io/BsonOutput.java
* /bson-3-12-7-sources-1-jar/org/bson/internal/CycleDetectingCodecRegistry.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonInt32Converter.java
* /bson-3-12-7-sources-1-jar/org/bson/BSONEncoder.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonMinKey.java
* /bson-3-12-7-sources-1-jar/org/bson/LazyBSONList.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonDoubleCodec.java
*
/bson-3-12-7-sources-1-jar/org/bson/BasicBSONEncoder.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/LongCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/ConventionDefaultsImpl.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonInt32Codec.java
* /bson-3-12-7-sources-1-jar/org/bson/LazyBSONObject.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/InstanceCreatorFactoryImpl.java
* /bson-3-12-7-sources-1-jar/org/bson/Document.java
* /bson-3-12-7-sources-1-jar/org/bson/diagnostics/Loggers.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonWriter.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonUndefined.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyCodecRegistry.java
* /bson-3-12-7-sources-1-jar/org/bson/util/Function.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ShellDateTimeConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/DoubleCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/PatternCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/IntegerCodec.java

```



- \*
- /bson-3-12-7-sources-1-jar/org/bson/codecs/AtomicLongCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/package-info.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonDocumentWriter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonDouble.java
- \* /bson-3-12-7-sources-1-jar/org/bson/internal/CodecCache.java
- \* /bson-3-12-7-sources-1-jar/org/bson/io/Bits.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/JsonMode.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/ClassModel.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonWriterSettings.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyMetadata.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/package-info.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonDocumentWrapper.java
- \* /bson-3-12-7-sources-1-jar/org/bson/RawBsonArray.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonDocumentReader.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/Decoder.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/ObjectIdGenerator.java
- \*
- /bson-3-12-7-sources-1-jar/org/bson/types/StringRangeSet.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/Codec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/AbstractBsonReader.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/DiscriminatorLookup.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/JsonSymbolConverter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/Converter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/LegacyExtendedJsonBinaryConverter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/FieldNameValidator.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonDocumentWrapperCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonDocument.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/JsonStringBuffer.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/Decimal128Codec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/LazyMissingCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/internal/UuidHelper.java
- \*
- /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonTypeClassMap.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/CodeCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/annotations/BsonCreator.java
- \* /bson-3-12-7-sources-1-jar/org/bson/io/BsonInput.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonMaxKeyConverter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyModelBuilder.java
- \* /bson-3-12-7-sources-1-jar/org/bson/io/BsonInputMark.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonContextType.java
- \* /bson-3-12-7-sources-1-jar/org/bson/RawBsonValueHelper.java
- \* /bson-3-12-7-sources-1-jar/org/bson/types/BasicBSONList.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonArray.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonObjectIdCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/RawBsonDocument.java

- \* /bson-3-12-7-sources-1-jar/org/bson/BsonString.java
- \*
- /bson-3-12-7-sources-1-jar/org/bson/json/StrictJsonWriter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/types/package-info.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/CodeWithScopeCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonBinary.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/CollectibleCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/FloatCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/RawBsonDocumentCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/util/ClassAncestry.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/ShellUndefinedConverter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyAccessorImpl.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/TypeWithTypeParameters.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/IterableCodecProvider.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonTimestamp.java
- \*
- /bson-3-12-7-sources-1-jar/org/bson/BsonNull.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonJavaScriptWithScopeCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonBinarySubType.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonJavaScriptCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/JsonStreamBuffer.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/LegacyExtendedJsonDateTimeConverter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonDBPointerCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/ShellInt64Converter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BSONCallbackAdapter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonJavaScriptWithScope.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/ObjectIdCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/ShellMaxKeyConverter.java
- \* /bson-3-12-7-sources-1-jar/org/bson/conversions/package-info.java
- \*
- /bson-3-12-7-sources-1-jar/org/bson/json/package-info.java
- \* /bson-3-12-7-sources-1-jar/org/bson/types/MaxKey.java
- \* /bson-3-12-7-sources-1-jar/org/bson/types/CodeWithScope.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/configuration/CodecRegistries.java
- \* /bson-3-12-7-sources-1-jar/org/bson/json/StrictCharacterStreamJsonWriterSettings.java
- \* /bson-3-12-7-sources-1-jar/org/bson/types/ObjectId.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyReflectionUtils.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/Conventions.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/CreatorExecutable.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonSymbol.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonValueCodecProvider.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/MapCodec.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/ClassModelBuilder.java
- \* /bson-3-12-7-sources-1-jar/org/bson/BsonRegularExpression.java
- \* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonMaxKeyCodec.java

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*
/bson-3-12-7-sources-1-jar/org/bson/json/ShellRegularExpressionConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/configuration/CodecRegistry.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonDateTimeCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ShellMinKeyConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonMinKeyConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonWriter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/DateCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/types/BSONTimestamp.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/annotations/package-info.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ShellTimestampConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyCodecProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/Convention.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonDocumentCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/TypeParameterMap.java
*
/bson-3-12-7-sources-1-jar/org/bson/BsonReaderMark.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/configuration/CodecConfigurationException.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonBinaryWriterSettings.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonDoubleConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/StringCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonReader.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonObjectId.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/AtomicIntegerCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/annotations/BsonId.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonInt32.java
* /bson-3-12-7-sources-1-jar/org/bson/Transformer.java
* /bson-3-12-7-sources-1-jar/org/bson/json/RelaxedExtendedJsonDateTimeConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonInt64.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonMaxKey.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/DocumentCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/annotations/BsonProperty.java
*
/bson-3-12-7-sources-1-jar/org/bson/util/package-info.java
* /bson-3-12-7-sources-1-jar/org/bson/internal/OverridableUuidRepresentationCodecRegistry.java
* /bson-3-12-7-sources-1-jar/org/bson/assertions/package-info.java
* /bson-3-12-7-sources-1-jar/org/bson/io/ByteBufferBsonInput.java
* /bson-3-12-7-sources-1-jar/org/bson/LazyBSONDecoder.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonBinaryCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertySerialization.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonParseException.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PojoBuilderHelper.java
* /bson-3-12-7-sources-1-jar/org/bson/json/JsonTokenType.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/ByteArrayCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonTimestampConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/IterableCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/ByteBufNIO.java
*

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/bson-3-12-7-sources-1-jar/org/bson/codecs/MaxKeyCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/util/ClassMap.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonUndefinedConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonValueCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonSymbolCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonRegularExpressionCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/AutomaticPojoCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/types/Binary.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonDecimal128Codec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyAccessor.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyCodecRegistryImpl.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/InstanceCreatorFactory.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ShellBinaryConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonDateTime.java
* /bson-3-12-7-sources-1-jar/org/bson/LazyBSONCallback.java
*
/bson-3-12-7-sources-1-jar/org/bson/codecs/BsonArrayCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/diagnostics/Logger.java
* /bson-3-12-7-sources-1-jar/org/bson/internal/CodecRegistryHelper.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonUndefinedCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/AbstractBsonWriter.java
* /bson-3-12-7-sources-1-jar/org/bson/internal/ProvidersCodecRegistry.java
* /bson-3-12-7-sources-1-jar/org/bson/internal/ChildCodecRegistry.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/IdGenerator.java
* /bson-3-12-7-sources-1-jar/org/bson/conversions/Bson.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonJavaScript.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonDateTimeConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/BSON.java
* /bson-3-12-7-sources-1-jar/org/bson/BasicBSONDecoder.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/CharacterCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/ByteCodec.java
*
/bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/LazyPojoCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/TypeData.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/annotations/BsonIgnore.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyModel.java
* /bson-3-12-7-sources-1-jar/org/bson/io/OutputBuffer.java
* /bson-3-12-7-sources-1-jar/org/bson/StringUtils.java
* /bson-3-12-7-sources-1-jar/org/bson/types/MinKey.java
* /bson-3-12-7-sources-1-jar/org/bson/json/ExtendedJsonDoubleConverter.java
* /bson-3-12-7-sources-1-jar/org/bson/json/StrictCharacterStreamJsonWriter.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonReader.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonInvalidOperationException.java
* /bson-3-12-7-sources-1-jar/org/bson/package-info.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/jsr310/package-info.java
* /bson-3-12-7-sources-1-jar/org/bson/BsonBoolean.java
*

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/bson-3-12-7-sources-1-jar/org/bson/diagnostics/SLF4JLogger.java  
\* /bson-3-12-7-sources-1-jar/org/bson/json/JsonToken.java  
\* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/PropertyModelSerializationImpl.java  
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\* /bson-3-12-7-sources-1-jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java

```

* /bson-3-12-7-sources-1-jar/org/bson/codecs/jsr310/Jsr310CodecProvider.java
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* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonCodec.java
* /bson-3-12-7-sources-1-jar/org/bson/codecs/BsonCodecProvider.java
*
/bson-3-12-7-sources-1-jar/org/bson/codecs/pojo/IdGenerator.java

```

## 1.202 github.com/signalfx/golib/v3 v3.3.43

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## 1.214 google-cloud-go

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use
```

```

client.
_ = c
}

func ExampleLicenseCodesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseCodeRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See
 https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseCodeRequest.
 }
 resp, err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 //
 // TODO: Use resp.
 _ = resp
}

```

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package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 "google.golang.org/api/iterator"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer
 c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.DeleteLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#DeleteLicenseRequest.
 }
 resp, err := c.Delete(ctx, req)

```

```

if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetLicenseRequest.
 }
 resp, err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_GetIamPolicy()
{
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

```

```

func ExampleLicensesClient_Insert() {
 ctx := context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#InsertLicenseRequest.
 }
 resp, err := c.Insert(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_List() {
 ctx :=
 context.Background()
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
 resp, err := it.Next()
 if err == iterator.Done {
 break
 }
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {

```

```

ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.SetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#SetIamPolicyLicenseRequest.
}
resp, err := c.SetIamPolicy(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func
ExampleLicensesClient_TestIamPermissions() {
ctx := context.Background()
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.TestIamPermissionsLicenseRequest{
 // TODO: Fill request struct fields.
 // See
https://pkg.go.dev/google.golang.org/genproto/googleapis/cloud/compute/v1#TestIamPermissionsLicenseRequest.
}
resp, err := c.TestIamPermissions(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}
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```

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package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "net/http"
 "net/url"

 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport "google.golang.org/api/transport/http"
 computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
)

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get []gax.CallOption
 TestIamPermissions []gax.CallOption
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption) (*computepb.TestPermissionsResponse, error)
}

```



```

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently.
// However, fields must not be modified concurrently with method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

//
// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)

```

```

(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However,
// fields must not be modified concurrently with method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD
}

// NewLicenseCodesRESTClient creates a new license codes rest client.
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 c := &licenseCodesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: &LicenseCodesCallOptions{}}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for

```

```

// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gax", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

//
// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp,
 err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
}

```

```

defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.LicenseCode{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if
err != nil {
 return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
req.GetProject(), req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return
rsp, nil
}

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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute

import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"

```

```

"net/http"
"net/url"

gax "github.com/googleapis/gax-go/v2"
"google.golang.org/api/googleapi"
"google.golang.org/api/iterator"
"google.golang.org/api/option"
"google.golang.org/api/option/internaloption"
httptransport "google.golang.org/api/transport/http"
computepb "google.golang.org/genproto/googleapis/cloud/compute/v1"
"google.golang.org/grpc"
"google.golang.org/grpc/metadata"
"google.golang.org/protobuf/encoding/protojson"
"google.golang.org/protobuf/proto"
)

var
newLicensesClientHook clientHook

// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
Delete []gax.CallOption
Get []gax.CallOption
GetIamPolicy []gax.CallOption
Insert []gax.CallOption
List []gax.CallOption
SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

// internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption)
(*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

```

```

// LicensesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicensesClient

 // The call options for this service.
 CallOptions
 *LicensesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

```

```

}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party
partners who are creating Cloud Marketplace images.
func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-
cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating
Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces
any existing policy. Caution This resource is intended for use only by third-party partners who are creating Cloud
Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint

```



```

string

// The http client.
httpClient *http.Client

// The x-goog-* metadata to be sent with each request.
xGoogMetadata metadata.MD
}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 c := &licensesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 }
 c.setGoogleClientInfo()

 return &LicensesClient{internalClient: c, CallOptions: &LicensesCallOptions{}}}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go", versionGo()}, keyval...)
 kv = append(kv, "gapic", versionClient, "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when

```

```

// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated.
func (c *licensesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Delete deletes the specified license.
 Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *compute.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp);
 err != nil {
 return nil, err
 }

```

```

}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v
 := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {

```

```

 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.License{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource exists.
Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, _
 := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return nil, err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
 }
}

```

```

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if
 err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

```

```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &compute.Operation{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
op := &Operation{proto: rsp}
return op, err
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available
// licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud.
// Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) List(ctx context.Context, req *compute.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*compute.ListLicensesRequest)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*compute.License, string, error) {
 resp := &compute.LicensesListResponse{}
 if pageToken != "" {
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses",

```

```

req.GetProject())

params := url.Values{}
if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
}
if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
}
if req != nil && req.OrderBy != nil {
 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v", req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
if err != nil {
 return nil, "", err
}

// Set the headers
for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}

httpReq.Header["Content-Type"] = []string{"application/json"}
httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, "", err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, "", err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, "", err
}

```

```

unm.Unmarshal(buf, resp)
it.Response = resp
return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
 return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c
 *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
 ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
 req.GetResource())

 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return nil, err
 }
 httpReq = httpReq.WithContext(ctx)
 // Set the headers
 for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
 }
 httpReq.Header["Content-Type"] = []string{"application/json"}

```



```

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if
err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.Policy{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, _ := url.Parse(c.endpoint)
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

 httpReq,
err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
if err != nil {
 return nil, err
}
httpReq = httpReq.WithContext(ctx)
// Set the headers

```

```

for k, v := range c.xGoogMetadata {
 httpReq.Header[k] = v
}
httpReq.Header["Content-Type"] = []string{"application/json"}

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return nil, err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return nil, err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return nil, err
}

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
rsp := &computepb.TestPermissionsResponse{}

if err := unm.Unmarshal(buf, rsp); err != nil {
 return nil, maybeUnknownEnum(err)
}
return rsp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 // Response is
 // the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}}

// InternalFetch is for use by the Google Cloud Libraries only.
// It is not part of the stable interface of this package.
//
// InternalFetch returns results from a single call to the underlying RPC.
// The number of results is no greater than pageSize.
// If there are no more results, nextPageToken is empty and err is nil.
InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)

```

```

}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator) Next() (*compute_pb.License,
 error) {
 var item *compute_pb.License
 if err := it.nextFunc(); err != nil {
 return item, err
 }
 item = it.items[0]
 it.items = it.items[1:]
 return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}

```

# 1.215 errors d42613fe1ab9

## 1.215.1 Available under license :

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Version 3, 29 June 2007

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# 1.216 goleak

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# 5

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## 1.217 [github.com/vektah/gqlparser/v2](https://github.com/vektah/gqlparser/v2) v2.5.11

### 1.217.1 Available under license :

The files in this testdata directory are derived from the graphql-js project:  
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## 1.218 git2go

# e9ed2978e92e18894a6e6ab42a064e9a170965 c8

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## 1.219 gomega

3143ff4a92ce52253b4b256cc4c1e8f026c260d5

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## 1.220 go-genproto

3a66f561d7aa4010d9715ecf4c19b19e81e19f3c

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## 1.221 io-grpc-grpc-api 1.75.0

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 */
```

Found in path(s):

```
* /grpc-api-1-75-0-2869354846-jar/io/grpc/Attributes.java
```

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```
/opt/cola/permits/2706453789_1768807214.8441238/0/grpc-api-1-75-0-2869354846-
jar/io/grpc/ServiceProviders.java/*
/opt/cola/permits/2706453789_1768807214.8441238/0/grpc-api-1-75-0-2869354846-
jar/io/grpc/ThreadLocalContextStorage.java/*
```

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```
* }
```

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```
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/opt/cola/permits/2706453789_1768807214.8441238/0/grpc-api-1-75-0-2869354846-
jar/io/grpc/BindableService.java/*
/opt/cola/permits/2706453789_1768807214.8441238/0/grpc-api-1-75-0-2869354846-
jar/io/grpc/CallCredentials.java/*
```



/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/CallOptions.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/CallbackMetricInstrument.java/\*  
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/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/HasByteBuffer.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/HttpConnectProxiedSocketAddress.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/IgnoreJRERequirement.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/InsecureChannelCredentials.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/InsecureServerCredentials.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/Internal.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/InternalCallOptions.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/InternalChannelz.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/InternalClientInterceptors.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/InternalConfigSelector.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/InternalConfigurator.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/InternalConfiguratorRegistry.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/InternalDecompressorRegistry.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-

jar/io/grpc/InternalInstrumented.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalKnownTransport.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalLogId.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalManagedChannelBuilder.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalManagedChannelProvider.java/\*  
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jar/io/grpc/InternalMayRequireSpecificExecutor.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalMetadata.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalMethodDescriptor.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalServer.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalServerInterceptors.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalServerProvider.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalServiceProviders.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalStatus.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalStatusRuntimeException.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalSubchannelAddressAttributes.java/\*  
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jar/io/grpc/InternalTimeUtils.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/InternalWithLogId.java/\*  
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jar/io/grpc/KnownLength.java/\*  
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jar/io/grpc/LoadBalancer.java/\*  
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jar/io/grpc/LoadBalancerProvider.java/\*  
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jar/io/grpc/LoadBalancerRegistry.java/\*  
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jar/io/grpc/LongCounterMetricInstrument.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/LongGaugeMetricInstrument.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/LongHistogramMetricInstrument.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-

jar/io/grpc/ManagedChannel.java/\*  
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jar/io/grpc/ManagedChannelBuilder.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/ManagedChannelProvider.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/ManagedChannelRegistry.java/\*  
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jar/io/grpc/MetricRecorder.java/\*  
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jar/io/grpc/ProxiedSocketAddress.java/\*  
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jar/io/grpc/ProxyDetector.java/\*  
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jar/io/grpc/SecurityLevel.java/\*  
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jar/io/grpc/ServerCallHandler.java/\*  
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jar/io/grpc/ServerCredentials.java/\*  
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jar/io/grpc/ServerInterceptor.java/\*  
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jar/io/grpc/ServerRegistry.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/ServerServiceDefinition.java/\*  
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jar/io/grpc/ServerTransportFilter.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/ServiceDescriptor.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/Status.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/StatusException.java/\*  
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/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/StatusRuntimeException.java/\*  
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jar/io/grpc/StreamTracer.java/\*  
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jar/io/grpc/SynchronizationContext.java/\*  
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/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/TlsChannelCredentials.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-  
jar/io/grpc/TlsServerCredentials.java/\*  
/opt/cola/permits/2706453789\_1768807214.8441238/0/grpc-api-1-75-0-2869354846-jar/io/grpc/package-info.java/\*

Found  
in path(s):  
\*

# 1.222 google-cloud-go

## cf8081fada0955a1682ce3fc400b44bc141309c7

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```
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/compute_pb"
)

func ExampleNewLicenseCodesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 //
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicenseCodesClient_Get() {
```

```

ctx := context.Background()
// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicenseCodesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.GetLicenseCodeRequest{
 // TODO: Fill request
 struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#GetLicenseCodeRequest.
}
resp, err := c.Get(ctx, req)
if err != nil {
 // TODO: Handle error.
}
// TODO: Use resp.
_ = resp
}

func ExampleLicenseCodesClient_TestIamPermissions() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicenseCodesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.TestIamPermissionsLicenseCodeRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseCodeRequest.
 }
 resp,
 err := c.TestIamPermissions(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.

```

```

_ = resp
}
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// Code generated by protoc-gen-go_gapic. DO NOT EDIT.

package compute_test

import (
 "context"

 compute "cloud.google.com/go/compute/apiv1"
 computepb "cloud.google.com/go/compute/apiv1/computepb"
 "google.golang.org/api/iterator"
)

func ExampleNewLicensesRESTClient() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will
 require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 // TODO: Use client.
 _ = c
}

func ExampleLicensesClient_Delete() {
 ctx := context.Background()

```



```

// This snippet has been automatically generated and should be regarded as a code template only.
// It will require modifications to work:
// - It may require correct/in-range values for request initialization.
// - It may require specifying regional endpoints when creating the service client as shown in:
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
c, err := compute.NewLicensesRESTClient(ctx)
if err != nil {
 // TODO: Handle error.
}
defer c.Close()

req := &computepb.DeleteLicenseRequest{
 //
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#DeleteLicenseRequest.
}
op, err := c.Delete(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_Get() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetLicenseRequest.
 }
 resp,
 err := c.Get(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
}

```

```

}
// TODO: Use resp.
_ = resp
}

func ExampleLicensesClient_GetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.GetIamPolicyLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#GetIamPolicyLicenseRequest.
 }
 resp, err := c.GetIamPolicy(ctx, req)
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
}

func ExampleLicensesClient_Insert()
{
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.InsertLicenseRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/compute#InsertLicenseRequest.
 }

```

```

op, err := c.Insert(ctx, req)
if err != nil {
 // TODO: Handle error.
}

err = op.Wait(ctx)
if err != nil {
 // TODO: Handle error.
}
}

func ExampleLicensesClient_List() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template
 only.
 // It will require modifications to work:
 // - It may require correct/in-range values for request initialization.
 // - It may require specifying regional endpoints when creating the service client as shown in:
 // https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
 c, err := compute.NewLicensesRESTClient(ctx)
 if err != nil {
 // TODO: Handle error.
 }
 defer c.Close()

 req := &computepb.ListLicensesRequest{
 // TODO: Fill request struct fields.
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#ListLicensesRequest.
 }
 it := c.List(ctx, req)
 for {
 resp, err := it.Next()
 if err == iterator.Done {
 break
 }
 if err != nil {
 // TODO: Handle error.
 }
 // TODO: Use resp.
 _ = resp
 }
}

func ExampleLicensesClient_SetIamPolicy() {
 ctx := context.Background()
 // This snippet has been automatically generated and should be regarded as a code template only.
 // It will require modifications to work:
 // - It may require correct/in-range

```

values for request initialization.

// - It may require specifying regional endpoints when creating the service client as shown in:

// [https://pkg.go.dev/cloud.google.com/go#hdr-Client\\_Options](https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options)

```
c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
```

```
 // TODO: Handle error.
```

```
}
```

```
defer c.Close()
```

```
req := &computepb.SetIamPolicyLicenseRequest{
```

```
 // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#SetIamPolicyLicenseRequest.
```

```
}
```

```
resp, err := c.SetIamPolicy(ctx, req)
```

```
if err != nil {
```

```
 // TODO: Handle error.
```

```
}
```

```
// TODO: Use resp.
```

```
_ = resp
```

```
}
```

```
func ExampleLicensesClient_TestIamPermissions() {
```

```
 ctx := context.Background()
```

```
 // This snippet has been automatically generated and should be regarded as a code template only.
```

```
 // It will require modifications to work:
```

```
 // - It may require correct/in-range values for request initialization.
```

```
 // - It may require specifying regional endpoints when creating the service client as shown
```

```
in:
```

```
// https://pkg.go.dev/cloud.google.com/go#hdr-Client_Options
```

```
c, err := compute.NewLicensesRESTClient(ctx)
```

```
if err != nil {
```

```
 // TODO: Handle error.
```

```
}
```

```
defer c.Close()
```

```
req := &computepb.TestIamPermissionsLicenseRequest{
```

```
 // TODO: Fill request struct fields.
```

```
 // See https://pkg.go.dev/cloud.google.com/go/compute/apiv1/computepb#TestIamPermissionsLicenseRequest.
```

```
}
```

```
resp, err := c.TestIamPermissions(ctx, req)
```

```
if err != nil {
```

```
 // TODO: Handle error.
```

```
}
```

```
// TODO: Use resp.
```

```
_ = resp
```

```
}
```

```
// Copyright 2022 Google LLC
```

```
//
```

```
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// limitations under the License.

// Code generated by protoc-gen-go_gapic. DO NOT EDIT.
```

```
package compute
```

```
import (
 "bytes"
 "context"
 "fmt"
 "io/ioutil"
 "math"
 "net/http"
 "net/url"

 computepb "cloud.google.com/go/compute/apiv1/computepb"
 gax "github.com/googleapis/gax-go/v2"
 "google.golang.org/api/googleapi"
 "google.golang.org/api/iterator"
 "google.golang.org/api/option"
 "google.golang.org/api/option/internaloption"
 httptransport
 "google.golang.org/api/transport/http"
 "google.golang.org/grpc"
 "google.golang.org/grpc/metadata"
 "google.golang.org/protobuf/encoding/protojson"
 "google.golang.org/protobuf/proto"
)
```

```
var newLicensesClientHook clientHook
```

```
// LicensesCallOptions contains the retry settings for each method of LicensesClient.
type LicensesCallOptions struct {
 Delete []gax.CallOption
 Get []gax.CallOption
 GetIamPolicy []gax.CallOption
 Insert []gax.CallOption
 List []gax.CallOption
}
```

```

SetIamPolicy []gax.CallOption
TestIamPermissions []gax.CallOption
}

func defaultLicensesRESTCallOptions() *LicensesCallOptions {
return &LicensesCallOptions{
Delete: []gax.CallOption{},
Get: []gax.CallOption{},
GetIamPolicy: []gax.CallOption{},
Insert: []gax.CallOption{},
List: []gax.CallOption{},
SetIamPolicy: []gax.CallOption{},
TestIamPermissions: []gax.CallOption{},
}
}

//
internalLicensesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicensesClient interface {
Close() error
setGoogleClientInfo(...string)
Connection() *grpc.ClientConn
Delete(context.Context, *computepb.DeleteLicenseRequest, ...gax.CallOption) (*Operation, error)
Get(context.Context, *computepb.GetLicenseRequest, ...gax.CallOption) (*computepb.License, error)
GetIamPolicy(context.Context, *computepb.GetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
Insert(context.Context, *computepb.InsertLicenseRequest, ...gax.CallOption) (*Operation, error)
List(context.Context, *computepb.ListLicensesRequest, ...gax.CallOption) *LicenseIterator
SetIamPolicy(context.Context, *computepb.SetIamPolicyLicenseRequest, ...gax.CallOption) (*computepb.Policy,
error)
TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseRequest, ...gax.CallOption)
(*computepb.TestPermissionsResponse, error)
}

// LicensesClient
is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
method calls.
//
// The Licenses API.
type LicensesClient struct {
// The internal transport-dependent client.
internalClient internalLicensesClient

// The call options for this service.
CallOptions *LicensesCallOptions
}

```

```

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicensesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicensesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

// Connection returns a connection to the API service.
//
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicensesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *LicensesClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Delete(ctx, req, opts...)
}

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
// who are creating Cloud Marketplace images.
func (c *LicensesClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *LicensesClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.GetIamPolicy(ctx, req, opts...)
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
// party partners who are creating Cloud Marketplace images.

```

```

func (c *LicensesClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts ...gax.CallOption)
(*Operation, error) {
 return c.internalClient.Insert(ctx, req, opts...)
}

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that
// belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a
// list of publicly-available licenses, use this method
// to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts ...gax.CallOption)
*LicenseIterator {
 return c.internalClient.List(ctx, req, opts...)
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicensesClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest, opts
...gax.CallOption) (*computepb.Policy, error) {
 return c.internalClient.SetIamPolicy(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicensesClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest, opts ...gax.CallOption) (*computepb.TestPermissionsResponse,
error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licensesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // operationClient is used to call the operation-specific management service.
 operationClient *GlobalOperationsClient

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicensesClient
 CallOptions **LicensesCallOptions

```



```

}

// NewLicensesRESTClient creates a new licenses rest client.
//
// The Licenses API.
func NewLicensesRESTClient(ctx context.Context, opts ...option.ClientOption)
(*LicensesClient, error) {
 clientOpts := append(defaultLicensesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx, clientOpts...)
 if err != nil {
 return nil, err
 }

 callOpts := defaultLicensesRESTCallOptions()
 c := &licensesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 o := []option.ClientOption{
 option.WithHTTPClient(httpClient),
 option.WithEndpoint(endpoint),
 }
 opC, err := NewGlobalOperationsRESTClient(ctx, o...)
 if err != nil {
 return nil, err
 }
 c.operationClient = opC

 return &LicensesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicensesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()...),
 }
}

//
// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licensesRESTClient) setGoogleClientInfo(keyval ...string) {

```

```

kv := append([]string{"gl-go", versionGo()}, keyval...)
kv = append(kv, "gapi", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licensesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 if err := c.operationClient.Close(); err != nil {
 return err
 }
 return nil
}

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licensesRESTClient) Connection()
*grpc.ClientConn {
 return nil
}

// Delete deletes the specified license. Caution This resource is intended for use only by third-party partners who are
// creating Cloud Marketplace images.
func (c *licensesRESTClient) Delete(ctx context.Context, req *computepb.DeleteLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 params := url.Values{}
 if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
"application/json"))
 opts = append((*c.CallOptions).Delete[0:len((*c.CallOptions).Delete):len((*c.CallOptions).Delete)], opts...)

```

```

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("DELETE", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
 c:
 c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return op, nil
}

```

```

// Get returns the specified License resource. Caution This resource is intended for use only by third-party partners
who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseRequest, opts ...gax.CallOption)
(*computepb.License, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v", req.GetProject(), req.GetLicense())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license", url.QueryEscape(req.GetLicense())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)],
 opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.License{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }
 })
}

```

```

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// GetIamPolicy gets the access control policy for a resource. May be empty if no such policy or resource
// exists. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace
// images.
func (c *licensesRESTClient) GetIamPolicy(ctx context.Context, req *computepb.GetIamPolicyLicenseRequest,
opts ...gax.CallOption) (*computepb.Policy, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/getIamPolicy", req.GetProject(),
req.GetResource())

 params := url.Values{}
 if req != nil && req.OptionsRequestedPolicyVersion != nil {
 params.Add("optionsRequestedPolicyVersion", fmt.Sprintf("%v", req.GetOptionsRequestedPolicyVersion()))
 }

 baseUrl.RawQuery = params.Encode()

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type",
"application/json"))
 opts =
append((*c.CallOptions).GetIamPolicy[0:len((*c.CallOptions).GetIamPolicy):len((*c.CallOptions).GetIamPolicy)],
opts...)
 unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.Policy{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)

```

```

httpReq.Header = headers

httpRsp, err := c.httpClient.Do(httpReq)
if err != nil {
 return err
}
defer httpRsp.Body.Close()

if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return
 nil, e
}
return resp, nil
}

// Insert create a License resource in the specified project. Caution This resource is intended for use only by third-
party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) Insert(ctx context.Context, req *computepb.InsertLicenseRequest, opts
...gax.CallOption) (*Operation, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetLicenseResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{

```

```

if req != nil && req.RequestId != nil {
 params.Add("requestId", fmt.Sprintf("%v", req.GetRequestId()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v", "project",
url.QueryEscape(req.GetProject()))))

headers
:= buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts = append((*c.CallOptions).Insert[0:len((*c.CallOptions).Insert):len((*c.CallOptions).Insert)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Operation{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return
 nil
}, opts...)

```

```

if e != nil {
 return nil, e
}
op := &Operation{
 &globalOperationsHandle{
 c: c.operationClient,
 proto: resp,
 project: req.GetProject(),
 },
}
return op, nil
}

```

// List retrieves the list of licenses available in the specified project. This method does not get any licenses that belong to other projects, including licenses attached to publicly-available images, like Debian 9. If you want to get a list of publicly-available licenses, use this method to make a request to the respective image project, such as debian-cloud or windows-cloud. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) List(ctx context.Context, req *computepb.ListLicensesRequest, opts
...gax.CallOption) *LicenseIterator {
 it := &LicenseIterator{}
 req = proto.Clone(req).(*computepb.ListLicensesRequest)
 unmarshalOptions := protojson.UnmarshalOptions{AllowPartial: true,
 DiscardUnknown: true}
 it.InternalFetch = func(pageSize int, pageToken string) ([]*computepb.License, string, error) {
 resp := &computepb.LicensesListResponse{}
 if pageToken != "" {
 req.PageToken = proto.String(pageToken)
 }
 if pageSize > math.MaxInt32 {
 req.MaxResults = proto.Uint32(math.MaxInt32)
 } else if pageSize != 0 {
 req.MaxResults = proto.Uint32(uint32(pageSize))
 }
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, "", err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses", req.GetProject())

 params := url.Values{}
 if req != nil && req.Filter != nil {
 params.Add("filter", fmt.Sprintf("%v", req.GetFilter()))
 }
 if req != nil && req.MaxResults != nil {
 params.Add("maxResults", fmt.Sprintf("%v", req.GetMaxResults()))
 }
 if req != nil && req.OrderBy != nil {

```



```

 params.Add("orderBy", fmt.Sprintf("%v", req.GetOrderBy()))
}
if req != nil && req.PageToken != nil {
 params.Add("pageToken", fmt.Sprintf("%v",
req.GetPageToken()))
}
if req != nil && req.ReturnPartialSuccess != nil {
 params.Add("returnPartialSuccess", fmt.Sprintf("%v", req.GetReturnPartialSuccess()))
}

baseUrl.RawQuery = params.Encode()

// Build HTTP headers from client and context metadata.
headers := buildHeaders(ctx, c.xGoogMetadata, metadata.Pairs("Content-Type", "application/json"))
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err != nil {
 return err
 }
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return
 }
 maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, "", e
}

```

```

 }
 it.Response = resp
 return resp.GetItems(), resp.GetNextPageToken(), nil
}

fetch := func(pageSize int, pageToken string) (string, error) {
 items, nextPageToken, err := it.InternalFetch(pageSize, pageToken)
 if err != nil {
 return "", err
 }
 it.items = append(it.items, items...)
 return nextPageToken, nil
}

it.pageInfo, it.nextFunc = iterator.NewPageInfo(fetch, it.bufLen, it.takeBuf)
it.pageInfo.MaxSize = int(req.GetMaxResults())
it.pageInfo.Token = req.GetPageToken()

return it
}

// SetIamPolicy sets the access control policy on the specified resource. Replaces any existing policy. Caution This
// resource is intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licensesRESTClient) SetIamPolicy(ctx context.Context, req *computepb.SetIamPolicyLicenseRequest,
 opts ...gax.CallOption) (*computepb.Policy, error) {
 m := protojson.MarshalOptions{AllowPartial:
 true}
 body := req.GetGlobalSetPolicyRequestResource()
 jsonReq, err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/setIamPolicy", req.GetProject(),
 req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
 append((*c.CallOptions).SetIamPolicy[0:len((*c.CallOptions).SetIamPolicy):len((*c.CallOptions).SetIamPolicy)],
 opts...)

```

```

unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
resp := &computepb.Policy{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings)
error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

```

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is intended for use only by third-party partners who are creating Cloud Marketplace images.

```

func (c *licensesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseRequest,
opts ...gax.CallOption) (*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()

```

```

jsonReq, err := m.Marshal(body)
if err != nil {
 return nil, err
}

baseUrl, err := url.Parse(c.endpoint)
if err != nil {
 return nil, err
}
baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenses/%v/testIamPermissions", req.GetProject(),
req.GetResource())

// Build HTTP headers from client and context metadata.
md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
opts =
append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).TestIamPermissions)], opts...)
unm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown:
true}
resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

```

```

if err := unm.Unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// LicenseIterator manages a stream of *computepb.License.
type LicenseIterator struct {
 items []*computepb.License
 pageInfo *iterator.PageInfo
 nextFunc func() error

 //
 // Response is the raw response for the current page.
 // It must be cast to the RPC response type.
 // Calling Next() or InternalFetch() updates this value.
 Response interface{}

 // InternalFetch is for use by the Google Cloud Libraries only.
 // It is not part of the stable interface of this package.
 //
 // InternalFetch returns results from a single call to the underlying RPC.
 // The number of results is no greater than pageSize.
 // If there are no more results, nextPageToken is empty and err is nil.
 InternalFetch func(pageSize int, pageToken string) (results []*computepb.License, nextPageToken string, err error)
}

// PageInfo supports pagination. See the google.golang.org/api/iterator package for details.
func (it *LicenseIterator) PageInfo() *iterator.PageInfo {
 return it.pageInfo
}

// Next returns the next result. Its second return value is iterator.Done if there are no more
// results. Once Next returns Done, all subsequent calls will return Done.
func (it *LicenseIterator)
Next() (*computepb.License, error) {
 var item *computepb.License
 if err := it.nextFunc(); err != nil {
 return item, err
 }
 item = it.items[0]

```

```

it.items = it.items[1:]
return item, nil
}

func (it *LicenseIterator) bufLen() int {
 return len(it.items)
}

func (it *LicenseIterator) takeBuf() interface{} {
 b := it.items
 it.items = nil
 return b
}

```

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// Code generated by protoc-gen-go\_gapic. DO NOT EDIT.

package compute

import (

"bytes"

"context"

"fmt"

"io/ioutil"

"net/http"

"net/url"

computepb "cloud.google.com/go/compute/apiv1/computepb"

gax "github.com/googleapis/gax-go/v2"

"google.golang.org/api/googleapi"

"google.golang.org/api/option"

"google.golang.org/api/option/internaloption"

httptransport "google.golang.org/api/transport/http"

"google.golang.org/grpc"

"google.golang.org/grpc/metadata"

"google.golang.org/protobuf/encoding/protojson"

)

```

var
 newLicenseCodesClientHook clientHook

// LicenseCodesCallOptions contains the retry settings for each method of LicenseCodesClient.
type LicenseCodesCallOptions struct {
 Get []gax.CallOption
 TestIamPermissions []gax.CallOption
}

func defaultLicenseCodesRESTCallOptions() *LicenseCodesCallOptions {
 return &LicenseCodesCallOptions{
 Get: []gax.CallOption{},
 TestIamPermissions: []gax.CallOption{},
 }
}

// internalLicenseCodesClient is an interface that defines the methods available from Google Compute Engine API.
type internalLicenseCodesClient interface {
 Close() error
 setGoogleClientInfo(...string)
 Connection() *grpc.ClientConn
 Get(context.Context, *computepb.GetLicenseCodeRequest, ...gax.CallOption) (*computepb.LicenseCode, error)
 TestIamPermissions(context.Context, *computepb.TestIamPermissionsLicenseCodeRequest, ...gax.CallOption)
 (*computepb.TestPermissionsResponse, error)
}

// LicenseCodesClient is a client for interacting with Google Compute Engine API.
// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
//
// The LicenseCodes API.
type LicenseCodesClient struct {
 // The internal transport-dependent client.
 internalClient internalLicenseCodesClient

 // The call options for this service.
 CallOptions *LicenseCodesCallOptions
}

// Wrapper methods routed to the internal client.

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *LicenseCodesClient) Close() error {
 return c.internalClient.Close()
}

// setGoogleClientInfo sets the name and version of the application in

```

```

// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *LicenseCodesClient) setGoogleClientInfo(keyval ...string) {
 c.internalClient.setGoogleClientInfo(keyval...)
}

//
// Connection returns a connection to the API service.
//
// Deprecated: Connections are now pooled so this method does not always
// return the same resource.
func (c *LicenseCodesClient) Connection() *grpc.ClientConn {
 return c.internalClient.Connection()
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *LicenseCodesClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption) (*computepb.LicenseCode, error) {
 return c.internalClient.Get(ctx, req, opts...)
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *LicenseCodesClient) TestIamPermissions(ctx context.Context,
 req *computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 return c.internalClient.TestIamPermissions(ctx, req, opts...)
}

// Methods, except Close, may be called concurrently. However, fields must not be modified concurrently with
// method calls.
type licenseCodesRESTClient struct {
 // The http endpoint to connect to.
 endpoint string

 // The http client.
 httpClient *http.Client

 // The x-goog-* metadata to be sent with each request.
 xGoogMetadata metadata.MD

 // Points back to the CallOptions field of the containing LicenseCodesClient
 CallOptions **LicenseCodesCallOptions
}

// NewLicenseCodesRESTClient creates a new license codes rest client.

```

```
//
// The LicenseCodes API.
func NewLicenseCodesRESTClient(ctx context.Context, opts ...option.ClientOption) (*LicenseCodesClient, error) {
 clientOpts := append(defaultLicenseCodesRESTClientOptions(), opts...)
 httpClient, endpoint, err := httptransport.NewClient(ctx,
 clientOpts...)
 if err != nil {
 return nil, err
 }

 callOpts := defaultLicenseCodesRESTCallOptions()
 c := &licenseCodesRESTClient{
 endpoint: endpoint,
 httpClient: httpClient,
 CallOptions: &callOpts,
 }
 c.setGoogleClientInfo()

 return &LicenseCodesClient{internalClient: c, CallOptions: callOpts}, nil
}

func defaultLicenseCodesRESTClientOptions() []option.ClientOption {
 return []option.ClientOption{
 internaloption.WithDefaultEndpoint("https://compute.googleapis.com"),
 internaloption.WithDefaultMTLSEndpoint("https://compute.mtls.googleapis.com"),
 internaloption.WithDefaultAudience("https://compute.googleapis.com/"),
 internaloption.WithDefaultScopes(DefaultAuthScopes()),
 }
}

// setGoogleClientInfo sets the name and version of the application in
// the `x-goog-api-client` header passed on each request. Intended for
// use by Google-written clients.
func (c *licenseCodesRESTClient) setGoogleClientInfo(keyval ...string) {
 kv := append([]string{"gl-go",
 versionGo()}, keyval...)
 kv = append(kv, "gapic", getVersionClient(), "gax", gax.Version, "rest", "UNKNOWN")
 c.xGoogMetadata = metadata.Pairs("x-goog-api-client", gax.XGoogHeader(kv...))
}

// Close closes the connection to the API service. The user should invoke this when
// the client is no longer required.
func (c *licenseCodesRESTClient) Close() error {
 // Replace httpClient with nil to force cleanup.
 c.httpClient = nil
 return nil
}

```

```

// Connection returns a connection to the API service.
//
// Deprecated: This method always returns nil.
func (c *licenseCodesRESTClient) Connection() *grpc.ClientConn {
 return nil
}

// Get return a specified license code. License codes are mirrored across all projects that have permissions to read the
// License Code. Caution This resource is intended for use only by third-party partners who are creating Cloud
// Marketplace images.
func (c *licenseCodesRESTClient) Get(ctx context.Context, req *computepb.GetLicenseCodeRequest, opts
...gax.CallOption)
(*computepb.LicenseCode, error) {
 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v", req.GetProject(),
req.GetLicenseCode())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
url.QueryEscape(req.GetProject()), "license_code", url.QueryEscape(req.GetLicenseCode())))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts = append((*c.CallOptions).Get[0:len((*c.CallOptions).Get):len((*c.CallOptions).Get)], opts...)
 unrm := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}
 resp := &computepb.LicenseCode{}
 e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("GET", baseUrl.String(), nil)
 if err
 != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err

```

```

}

buf, err := ioutil.ReadAll(httpRsp.Body)
if err != nil {
 return err
}

if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
}

return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

// TestIamPermissions returns permissions that a caller has on the specified resource. Caution This resource is
// intended for use only by third-party partners who are creating Cloud Marketplace images.
func (c *licenseCodesRESTClient) TestIamPermissions(ctx context.Context, req
*computepb.TestIamPermissionsLicenseCodeRequest, opts ...gax.CallOption)
(*computepb.TestPermissionsResponse, error) {
 m := protojson.MarshalOptions{AllowPartial: true}
 body := req.GetTestPermissionsRequestResource()
 jsonReq,
 err := m.Marshal(body)
 if err != nil {
 return nil, err
 }

 baseUrl, err := url.Parse(c.endpoint)
 if err != nil {
 return nil, err
 }
 baseUrl.Path += fmt.Sprintf("/compute/v1/projects/%v/global/licenseCodes/%v/testIamPermissions",
 req.GetProject(), req.GetResource())

 // Build HTTP headers from client and context metadata.
 md := metadata.Pairs("x-goog-request-params", fmt.Sprintf("%s=%v&%s=%v", "project",
 url.QueryEscape(req.GetProject()), "resource", url.QueryEscape(req.GetResource()))))

 headers := buildHeaders(ctx, c.xGoogMetadata, md, metadata.Pairs("Content-Type", "application/json"))
 opts =
 append((*c.CallOptions).TestIamPermissions[0:len((*c.CallOptions).TestIamPermissions):len((*c.CallOptions).Tes
 tIamPermissions)], opts...)
 unmarshal := protojson.UnmarshalOptions{AllowPartial: true, DiscardUnknown: true}

```



```

resp := &computepb.TestPermissionsResponse{}
e := gax.Invoke(ctx, func(ctx context.Context, settings gax.CallSettings) error {
 if settings.Path
 != "" {
 baseUrl.Path = settings.Path
 }
 httpReq, err := http.NewRequest("POST", baseUrl.String(), bytes.NewReader(jsonReq))
 if err != nil {
 return err
 }
 httpReq = httpReq.WithContext(ctx)
 httpReq.Header = headers

 httpRsp, err := c.httpClient.Do(httpReq)
 if err != nil {
 return err
 }
 defer httpRsp.Body.Close()

 if err = googleapi.CheckResponse(httpRsp); err != nil {
 return err
 }

 buf, err := ioutil.ReadAll(httpRsp.Body)
 if err != nil {
 return err
 }

 if err := unmarshal(buf, resp); err != nil {
 return maybeUnknownEnum(err)
 }

 return nil
}, opts...)
if e != nil {
 return nil, e
}
return resp, nil
}

```

## 1.223 grpc-go

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## 1.231 stack

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## 1.236 antlr 4 tool 4.9.2

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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 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 __name__ is not None and "." 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 __name__ is not None and "." 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 __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 | <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.name>(self<currentRule.args:{a | , <a.name><if(a.type)>:<a.type><endif>}>):
```

```
 localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
```

```
 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.name>(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>}>)
```

```
 _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(ttypes=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(ttypes=look)>

```

```

 <alt>
 pass}; separator="\n">
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.ttypes)))><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
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({ <offsetShiftVar(s.varName, bits.shift)>})> and ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 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>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

cases(ttypes) ::= <<

```

```
if token in [<ttypes:{t | <parser.name>.<t>}; separator=", ">]:
```

```
>>
```

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

```
self.state = <r.stateNumber>
```

```
<if(r.labels)><r.labels:{l | <labelref(l)> =
```

```
>>
```

```
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>)
```

```
<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.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(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) ::= "(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.name>"
SetNonLocalAttr(s, rhsChunks) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

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

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

ContextTokenGetterDecl(t) ::= <<
def <t.name>(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.name>(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.name>(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.name>(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) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
 __slots__ = 'parser'

 def __init__(self, parser, parent:ParserRuleContext=None, invokingState:int=-1<struct.ctorAttrs:{a | ,
<a.name><if(a.type)>:<a.type><endif>=None}>):
 super().__init__(parent, invokingState)
 self.parser = parser
 <attrs:{a | <a>}; separator="\n">
 <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; 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.name> = ctx.<a.name>}; separator="\n">

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

>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name>(<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.name> = <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.name>"

/** 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) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<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 __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.channels)>
 <lexer.channels:{c| <c> = <lexer.channels.(c)>}; separator="\n">

 <endif>
 <if(rest(lexer.modes))>
 <rest(lexer.modes):{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.channels)>, <lexer.channels:{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)
::= <<
<! only one segment, can be inlined !>

def serializedATN():
 with StringIO() as buf:
 buf.write("<model.serialized; wrap={}>\n" buf.write("{}>")
 return buf.getvalue()

>>

/** 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):
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg
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- \*/

```
tree grammar ATNBuilder;
options {
 language = Java;
 tokenVocab = ANTLRParser;
 ASTLabelType = GrammarAST;
 // filter = true;
}
```

// Include the copyright in this source and also the generated source

```
@header {
/*
```

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```
*/
```

```
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):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g

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\*/

```
javaTypeInitMap ::= [
 "int": "0",
 "long": "0",
 "float": "0.0f",
 "double": "0.0",
 "boolean": "false",
 "byte": "0",
 "short": "0",
 "char": "0",
 default: "null" // anything other than a primitive type is an object
]
```

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

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
 <fileHeader(file.grammarFileName,
 file.ANTLRVersion)>
 <if(file.genPackage)>
 package <file.genPackage>;
 <endif>
 <namedActions.header>
 import org antlr.v4.runtime.atn.*;
 import org antlr.v4.runtime.dfa.DFA;
 import org antlr.v4.runtime.*;
 import org antlr.v4.runtime.misc.*;
 import org antlr.v4.runtime.tree.*;
 import java.util.List;
 import java.util.Iterator;
 import java.util.ArrayList;

 <parser>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
 <fileHeader(file.grammarFileName, file.ANTLRVersion)>
 <if(file.genPackage)>
 package <file.genPackage>;
 <endif>
 <header>
 import org antlr.v4.runtime.tree.ParseTreeListener;
```



```

/**
 * This interface defines a complete listener for a parse tree produced by
 * {@link <file.parserName>}.
 */
public interface <file.grammarName>Listener extends ParseTreeListener {
 <file.listenerNames:{lname |
/**
<if(file.listenerLabelRuleNames.(lname))>
 * Enter a parse tree produced by the {@code <lname>}
 * labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>}.
<else>
 * Enter a parse tree produced by {@link <file.parserName>#<lname>}.
<endif>
 * @param ctx the parse tree
 */
void enter<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);
/**
<if(file.listenerLabelRuleNames.(lname))>
 * Exit a parse tree produced by the {@code <lname>}
 * labeled alternative in {@link <file.parserName>#<file.listenerLabelRuleNames.(lname)>}.
<else>
 * Exit a parse tree produced by {@link <file.parserName>#<lname>}.
<endif>
 * @param ctx the parse tree
 */
void exit<lname; format="cap">(<file.parserName>.<lname; format="cap">Context ctx);; separator="\n">
}
>>

```

```

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

```

```

import org.antlr.v4.runtime.ParserRuleContext;
import org.antlr.v4.runtime.tree.ErrorNode;
import org.antlr.v4.runtime.tree.TerminalNode;

```

```

/**
 * This class provides an empty implementation of {@link <file.grammarName>Listener},
 * which can be extended to create a listener which only needs to handle a subset
 * of the available methods.
 */
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.
 */
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; format="java-escape"> 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"})
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; format="java-escape">"; }

@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.name>(<args; separator=",">) throws RecognitionException {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
<a.name>}>);
 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.name>(<args; separator=",">) throws RecognitionException {
 return <currentRule.name>(0<currentRule.args:{a | , <a.name>}>);
}

```

```

private <currentRule.ctxType> <currentRule.name>(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.name>}>);
<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(ttypes=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(ttypes=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.ttypes)))><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.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>}) && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(ttype, bits.shift)>)}; separator=" | ">)) != 0)
%>

```

```

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

```

```
]
```

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

```
// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<ttype>};
separator=" || ">
>%>
```

```
cases(ttypes) ::= <<
<ttypes:{t | case <t>:}; separator="\n">
>>
```

```
InvokeRule(r, argExprsChunks) ::= <<
setState(<r.stateNumber>);
<if(r.labels)><r.labels:{l | <labelref(l)> =
>><endif><r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChunks>
>);
>>
```

```
MatchToken(m) ::= <<
setState(<m.stateNumber>);
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(<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) ::= <<
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.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(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?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.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"((<s.ruleName; format=\"cap\">Context)getInvokingContext(<s.ruleIndex>)).<s.name>
= <rhsChunks>;"

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

TokenDecl(t) ::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>;"
TokenListDecl(t) ::= "List<Token> <t.name> = new ArrayList<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = 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.name>() {

```

```

return getRuleContext(<r.ctxName>.class,0);
}
>>
ContextRuleListGetterDecl(r) ::= <<
public
List<<<r.ctxName>>> <r.name>() {
return getRuleContexts(<r.ctxName>.class);
}
>>
ContextRuleListIndexedGetterDecl(r) ::= <<
public <r.ctxName> <r.name>(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)
::= <<
public static class <struct.name> 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.name>(ParserRuleContext parent, int invokingState) { super(parent, invokingState);
}<endif>
public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>}) {
super(parent, invokingState);
<struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
}
@Override public int getRuleIndex() { return RULE_<struct.derivedFromName>; }
<if(struct.provideCopyFrom)><! don't need copy unless we have subclasses !>
public <struct.name>() { }
public void copyFrom(<struct.name> ctx) {

```



```

 super.copyFrom(ctx);
 <struct.attrs:{a | this.<a.name> = ctx.<a.name>;}; separator="\n">
 }
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public static class <struct.name> extends <currentRule.name; format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>;}; separator="\n">
 public <struct.name>(<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.name><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.name>"

```

```

/** 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>
<if(label)>_localctx.<label> = _prevctx;<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"})
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.channels)>
public static final int
<lexer.channels:{c | <c>=<lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
public static final int
<rest(lexer.modes){m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static String[] channelNames = {
"DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{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>
}
>>

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires
segmented representation !>
private static final int _serializedATNSegments = <length(model.segments)>;
<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):

\* /antlr4-4-9-2-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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```

```

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*/

```

```

/** Find left-recursive rules */

```

```

tree grammar LeftRecursiveRuleWalker;

```

```

options {
 tokenVocab=ANTLRParser;
 ASTLabelType=GrammarAST;
}

```

```

@header {
 package org.antlr.v4.parse;

```

```

import org.antlr.v4.misc.*;
import org.antlr.v4.tool.*;
import org.antlr.v4.tool.ast.*;
}

```

```

@members {
 private String ruleName;
 private int currentOuterAltNumber; // which outer alt of rule?
 public
 int numAlts; // how many alts for this rule total?

```

```

 public void setAltAssoc(AltAST altTree, int alt) {}
 public void binaryAlt(AltAST altTree, int alt) {}
 public void prefixAlt(AltAST altTree, int alt) {}
 public void suffixAlt(AltAST altTree, int alt) {}
 public void otherAlt(AltAST altTree, int alt) {}
 public void setReturnValues(GrammarAST t) {}
}

```

```

@rulecatch { }

```

```

// TODO: can get parser errors for not matching pattern; make them go away
public

```

```

rec_rule returns [boolean isLeftRec]
@init
{
 currentOuterAltNumber = 1;
}
: ^(r=RULE id=RULE_REF {ruleName=$id.getText();}
 ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
 (^ (RETURNS a=ARG_ACTION {setReturnValues($a);}))?
// (^(THROWS .+)? don't allow
 (^(LOCALS ARG_ACTION))? // TODO: copy these to gen'd code
 (^(OPTIONS .*)
 | ^ (AT ID ACTION) // TODO: copy
)*
 ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
 exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause
: ^(FINALLY ACTION)
;

ruleModifier
: PUBLIC
| PRIVATE
| PROTECTED
;

ruleBlock returns [boolean isLeftRec]
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
: ^(BLOCK
 (
 o=outerAlternative
 {if ($o.isLeftRec) $isLeftRec = true;}
 {currentOuterAltNumber++;}
)+
)
;

```

```

/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
outerAlternative returns [boolean isLeftRec]
: (binary)=> binary
 {binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| (prefix)=> prefix
 {prefixAlt((AltAST)$start, currentOuterAltNumber);}
| (suffix)=> suffix
 {suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
;

binary
: ^(
 ALT elementOptions? recurse element* recurse epsilonElement*)
 {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

prefix
: ^(ALT elementOptions?
 element+
 recurse epsilonElement*
)
 {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

suffix
: ^(ALT elementOptions? recurse element+)
 {setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
;

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {(((CommonTree)input.LT(1)).getText().equals(ruleName))? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}

```



```
| c=TOKEN_REF {$t = $c;}
;
```

```
elementOptions
 : ^(ELEMENT_OPTIONS elementOption*)

 ;
```

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

 ;
```

```
element
 : atom
 | ^(NOT element)
 | ^(RANGE atom atom)
 | ^(ASSIGN ID element)
 | ^(PLUS_ASSIGN ID element)
 | ^(SET setElement+)
 | RULE_REF
 | ebnf
 | epsilonElement

 ;
```

```
epsilonElement
 : ACTION
 | SEMPRED
 | EPSILON
 | ^(ACTION elementOptions)
 | ^(SEMPRED elementOptions)

 ;
```

```
setElement
 : ^(STRING_LITERAL elementOptions)
 | ^(TOKEN_REF elementOptions)
 | STRING_LITERAL
 | TOKEN_REF

 ;
```

```
ebnf: block
 | ^(OPTIONAL block)
 | ^(CLOSURE block)
 | ^(POSITIVE_CLOSURE block)

 ;
```

block

```
: ^(BLOCK ACTION? alternative+)
;
```

alternative

```
: ^(ALT elementOptions? element+)
;
```

atom

```
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

\*

/antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g

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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 grmmars 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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```

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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
```

```
 while (i>=0 && i<n) {
```

```
 int ttype = tokens.get(i).getType();
```

```
 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 decriptive
// error message in case of a standalone '/' character, which makes no
// sense in ANTLR source code. We also 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
: '['
('\\ ~(\'|\"|\n')
| ~(\'|\"|\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; }
((WSNLCHARS* '=>') => WSNLCHARS* '=>' // v3 gated sempred
{
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.V3_GATED_SEMPRED, t);
}
)?
)?
;

// -----
// 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 used to specify ANTLR v3 grammars. 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' ;
TREE_GRAMMAR : 'tree' WSNLCHARS* 'grammar' ;
PROTECTED : 'protected'

;
PUBLIC : 'public' ;
PRIVATE : 'private' ;
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 : '?' ;
SYNPRED : '=>'
 {
 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.V3_SYNPRED, t);
 $channel=HIDDEN;
 }
;

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-\uEFFFE] ;

```

// -----

// 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):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.g  
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```
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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)
;

```

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\* /antlr4-4-9-2-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="ε"<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>];
>>

```

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\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/dot/graphs.stg

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\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ExceptionClause.java

- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/ActionTranslator.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/SemPred.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAnalyzer.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/RuleFunction.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/v3TreeGrammarException.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ListenerDispatchMethod.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/QRetValueRef.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/SymbolCollector.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/RuleAST.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/GrammarParserInterpreter.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/CodeGeneratorExtension.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/GrammarASTAdaptor.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/v4ParserException.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/RuleElementAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionText.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/DispatchMethod.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/JavaScriptTarget.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_ctx.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ToolANTLRLexer.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/DefaultToolListener.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/GoTarget.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/AltBlock.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/analysis/AnalysisPipeline.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/automata/ATNPrinter.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/SetAttr.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/NotAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/misc/EscapeSequenceParsing.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/Action.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/SymbolChecks.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/Attribute.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/TreePostScriptGenerator.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/Tool.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LL1AltBlock.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LL1Loop.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/BasicFontMetrics.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/CodeBlock.java

- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/TreeView.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ElementFrequenciesVisitor.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/AttributeChecks.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/UnicodeEscapes.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/misc/MutableInt.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/Wildcard.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ANTLRToolListener.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/PredAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/CppTarget.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/TreeLayoutAdaptor.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/AttributeDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/AttributeDict.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenRef.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/StructDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ToolMessage.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_stop.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/GrammarSyntaxMessage.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/Trees.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/ActionSniffer.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/misc/Utils.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/BuildDependencyGenerator.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ThrowRecognitionException.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/StarBlockAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/Grammar.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/Python3Target.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ActionSplitterListener.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/TestRig.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ArgAction.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenListDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/Python2Target.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/analysis/LeftRecursionDetector.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextTokenType.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/ParserFactory.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/TestSetInline.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/CSharpTarget.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/misc/FrequencySet.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/AltAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/BlankActionSplitterListener.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LexerFile.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ANTLRMessage.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/StarBlock.java

- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/RuleElement.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/automata/LexerATNFactory.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/LabelType.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/GrammarInterpreterRuleContext.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/CodeBlockForOuterMostAlt.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/RuleSempredFunction.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ThrowNoViableAlt.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_stop.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ListLabelRef.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/RetValRef.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_pos.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/BasicSemanticChecks.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/LocalRef.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/misc/Graph.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/LabelElementPair.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTErrorNode.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_parser.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/PHPTarget.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ErrorType.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/OptionalBlockAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/BaseVisitorFile.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/CaptureNextToken.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/AltLabelStructDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/OutputFile.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/MatchNotSet.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_int.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/NonLocalAttrRef.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/BaseListenerFile.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/OutputModelController.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/Choice.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LL1StarBlockSingleAlt.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/SwiftTarget.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/Target.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/CodeGenPipeline.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/VisitorFile.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/GrammarTransformPipeline.java

- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/GrammarAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/dbg.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_text.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/ElementListDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/BlockAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ModelElement.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/TerminalAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/LabelRef.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/OutputModelWalker.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/AttributeResolver.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/UseDefAnalyzer.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/misc/CharSupport.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/OutputModelObject.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextListDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/CodeGenerator.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlockSingleAlt.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/SystemFontMetrics.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/RuleCollector.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ParserFile.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/GrammarSemanticsMessage.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/ActionAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListGetterDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_channel.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/OutputModelFactory.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_parser.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_text.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/Parser.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_line.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_start.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/QuantifierAST.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java
- \*
- /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/Lexer.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/DefaultOutputModelFactory.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/SerializedATN.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_index.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/unicode/UnicodeDataTemplateController.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/PlusBlock.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/SrcOp.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_text.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListIndexedGetterDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/GrammarToken.java
- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/automata/ATNOptimizer.java

```

*
/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/MatchToken.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef_type.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/JavaTarget.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ErrorMessage.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LL1Choice.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/misc/OrderedHashMap.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/LeftRecursiveRule.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleGetterDecl.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/Alternative.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/ArgRef.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/Decl.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/LeftRecursionCyclesMessage.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ToolANTLRParser.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/Loop.java
*
/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/Sync.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/automata/TailEpsilonRemover.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/InvokeRule.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/automata/ATNFactory.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/AddToLabelList.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ScopeParser.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/semantics/SemanticPipeline.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextRuleListGetterDecl.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/automata/ATNVisitor.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/analysis/LeftRecursiveRuleTransformer.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/automata/ParserATNFactory.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_start.java
*
/antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/PlusBlockAST.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/TokenVocabParser.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/OptionalBlock.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_ctx.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/decl/TokenDecl.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/ResyncToEndOfRuleBlock.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/Rule.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/GrammarRootAST.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/LabeledOp.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/LexerFactory.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/MatchSet.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/TreeTextProvider.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/ListenerFile.java
*
/antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/target/DartTarget.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ast/SetAST.java
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/model/Recognizer.java

```

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java  
No license file was found, but licenses were detected in source scan.

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

```
/** 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 {
```

```
/*
```

```
[The "BSD license"]
```

```
Copyright (c) 2011 Terence Parr
```

```
All rights reserved.
```

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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 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 enterLabeledLexerElement(GrammarAST tree) { }

protected void exitLabeledLexerElement(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($m);}))?
 {discoverLexerRule((RuleAST)$RULE, $TOKEN_REF, mods, (GrammarAST)input.LT(1));}
 lexerRuleBlock
 {
 finishLexerRule((RuleAST)$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);
}
: labeledLexerElement
 | lexerAtom
 | lexerSubrule
 | ACTION {actionInAlt((ActionAST)$ACTION);}
 | SEMPRED {sempredInAlt((PredAST)$SEMPRED);}
 | ^(ACTION elementOptions) {actionInAlt((ActionAST)$ACTION);}
 | ^(SEMPRED elementOptions) {sempredInAlt((PredAST)$SEMPRED);}
 | EPSILON
;

labeledLexerElement
@init {

```

```

enterLabeledLexerElement($start);
}
@after {
exitLabeledLexerElement($start);
}
: ^((ASSIGN|PLUS_ASSIGN) ID (lexerAtom|block))
;

```

```

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):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.g

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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):

```

* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

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```
* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg
```

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```

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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; format="java-escape"> 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; format="java-escape">" }

 override <accessLevelOpenOK(parser)>
 func
 getRuleNames() -> [String] { return <parser.name>.ruleNames }

 override <accessLevelOpenOK(parser)>
 func getSerializedATN() -> String { 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 _serializedATN = <parser.name>ATN().jsonString

<accessLevelNotOpen(parser)>
static let _ATN = ATNDeserializer().deserializeFromJson(_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>:
 <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("4.9.2", 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) {
 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.name>(<if(first(args))>_ <endif><args; separator=", ">) throws -> <currentRule.ctxType> {
 var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, getState())<currentRule.args:{a | ,
 <a.name>}>>)
 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.name>(<if(first(args))>_ <endif><args; separator=", _">) throws -> <currentRule.ctxType> {
 return try <currentRule.name>(0<currentRule.args:{a | , <a.name>}>)
}
@discardableResult
private
func <currentRule.name>(_ _p<args:{a | , <a>}>: Int) throws -> <currentRule.ctxType> {
 let _parentctx: ParserRuleContext? = _ctx
 let _parentState: Int = getState()
 var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args:{a | ,
<a.name>}>)
 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(ttypes=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(ttypes=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.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" | ">!-->
//closure
{ () -> Bool in
 <if(rest(s.bitsets))>var<else>let<endif> testSet: Bool = <first(s.bitsets):{bits |
<if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s, bits)><endif>}>
 <rest(s.bitsets):{bits | testSet = testSet | <if(rest(rest(bits.ttypes)))><bitsetBitfieldComparison(s,
bits)><else><bitsetInlineComparison(s, bits)><endif>}; separator="\n">
 return testSet
}()
>>

// 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.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <<
<!--<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((1 \<< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1 \<< <offsetShift(ttype, bits.shift)>}); separator=" | ">)) != 0)!>
{ ()
-> Bool in
 <!-- let test: Bool = (<testShiftInRange({<offsetShift(s.varName, bits.shift)>})>)>!-->
 <!--var temp: Int64 = Int64(<offsetShift(s.varName, bits.shift)>)>!-->
 <!--temp = (temp \< 0) ? (64 + (temp % 64)) : (temp % 64)!>!-->
 <!--let test1: Int64 = (Int64(1) \<< temp)!>!-->
 <!--var test2: Int64 = (<first(bits.ttypes):{ttype | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>)>!-->
 <!--rest(bits.ttypes):{ttype | test2 = test2 | Utils.bitLeftShift(<offsetShift(parserName(ttype), bits.shift)>)}>!-->
separator="\n">!-->
 let testArray: [Int] = [<s.varName>, <bits.ttypes:{ttype |<parserName(ttype)>}; separator=", ">]
 <!--var test2: Int64 = Utils.testBitLeftShiftArray(testArray)!>!-->
 return Utils.testBitLeftShiftArray(testArray, <bits.shift>)
}()
>>

```

```

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

parserName(ttype) ::= <%
<parser.name>.Tokens.<ttype>.rawValue
%>

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

//
 produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName> == <parser.name>.Tokens.<ttype>.rawValue}; separator=" || ">
%>

cases(ttypes) ::= <<
<trunc(ttypes): {t | case .<t>:fallthrough} ; separator="\n">
<last(ttypes): {t | case .<t>:} ; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
 setState(<r.stateNumber>)
 <if(r.labels)>
 try {
 let assignmentValue = try
 <r.name>(<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.name>(<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.name>.rawValue)
 <m.labels:{l | <labelref(l)> = assignmentValue} ; separator="\n">
 }()
 <else>try match(<parser.name>.Tokens.<m.name>.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.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a) ::= "_localctx.<a.name>"
QRetValRef(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> != 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.name>"
SetNonLocalAttr(s, rhsChunks) ::=
"((<s.ruleName; format=\\\"cap\\\">Context)getInvokingContext(<s.ruleIndex>)).<s.name> = <rhsChunks>"

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

TokenDecl(t) ::= "<t.name>: <SwiftTypeMap.(TokenLabelType())>!"

```

```

TokenTypeDecl(t) ::= "var <t.name>: Int = 0"
TokenListDecl(t) ::= "<t.name>: [Token] = [Token]()"
RuleContextDecl(r)
 ::= "<r.name>: <r.ctxName>!"
RuleContextListDecl(rdecl) ::= "<rdecl.name>: [<rdecl.ctxName>] = [<rdecl.ctxName>]()"

```

```

ContextTokenGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.name>() -> TerminalNode? {
 return getToken(<parser.name>.Tokens.<t.name>.rawValue, 0)
 }
>>

```

```

ContextTokenListGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.name>() -> [TerminalNode] {
 return getTokens(<parser.name>.Tokens.<t.name>.rawValue)
 }
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
 <accessLevelOpenOK(parser)>
 func <t.name>(_ i: Int) -> TerminalNode? {
 return getToken(<parser.name>.Tokens.<t.name>.rawValue, i)
 }
>>

```

```

ContextRuleGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.name>() -> <r.ctxName>? {
 return getRuleContext(<r.ctxName>.self, 0)
 }
>>

```

```

ContextRuleListGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func <r.name>() -> [<r.ctxName>] {
 return getRuleContexts(<r.ctxName>.self)
 }
>>

```

```

ContextRuleListIndexedGetterDecl(r) ::= <<
 <accessLevelOpenOK(parser)>
 func
 <r.name>(_ 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,
 superClass={ParserRuleContext}) ::= <<

<accessLevelNotOpen(parser)> class <struct.name>:
<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.name> = <a.name>;}; 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.name>
 <struct.attrs:{a | self.<a.name> = ctx.<a.name>;}; separator="\n">
 }
 <endif>
 <dispatchMethods; separator="\n">
 <extensionMembers; separator="\n">
}
>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<

```

```

<accessLevelNotOpen(parser)>
class <struct.name>: <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.name>: <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.name>"

```

```

/** 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>
 <if(label)>_localctx.<label> = _prevctx;<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..

```

```

<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() -> String { 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 _serializedATN: String = <lexer.name>ATN().jsonString

```

```

<accessLevelNotOpen(lexer)>
static
let _ATN: ATN = ATNDeserializer().deserializeFromJson(_serializedATN)
}
>>

/** Don't need to define anything. The tool generates a XParserATN.swift file (and same for lexer)
 * which is referenced from static field _serializedATN. This json string is passed to
 * deserializeFromJson(). Note this is not the "serialization as array of ints" that other targets
 * do. It is more or less the output of ATNPrinter which gets read back in.
 */
SerializedATN(model) ::= <<
>>

/** 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):
* /antlr4-4-9-2-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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```
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() : string
{
 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);
}
<endif(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,postamble) ::= <<

```

/**

```

```

* @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(ttypes=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(ttypes=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.ttypes)))><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.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 <\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 <\< <offsetShiftConst(ttype, bits.shift)>}); separator=" | ">)) !== 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>
%>
```

```
// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | $<s.varName> === self::<ttype>}; separator=" || ">
%>
```

```
cases(ttypes) ::= <<
<ttypes:{t | case self::<t>:}; 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>"
RetValRef(a) ::= "$localContext-><a.name>"
QRetValRef(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) ::= <<
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 $visitor)
{
 if ($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 Antlr4\\Runtime\\CharStream;
use Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
use Antlr4\\Runtime\\RuleContext;
use Antlr4\\Runtime\\Atn\\ATN;
use Antlr4\\Runtime\\Dfa\\DFA;
use Antlr4\\Runtime\\Vocabulary;
use Antlr4\\Runtime\\RuntimeMetaData;
use 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.channels)>
 public const <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
 <endif>

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

 /**
 * @var array<string>
 */
 public const CHANNEL_NAMES = [
 'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{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() : string
{
 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) ::= <<
<if(rest(model.segments))>
/**

```

```

* @var string
*/
private const SERIALIZED_ATN =
 <model.segments:{segment| "<segment; wrap={ " .<\n>" }>"; separator=" .\n">;
<else>
/**
* @var string
*/
private const SERIALIZED_ATN
=
 "<model.serialized; wrap={ " .<\n> " }>";
<endif>
>>

/**
* 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):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg

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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):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.stg

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\*/

/\*

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

The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the 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):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg

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```

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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 ebfnRoot] returns [List<? extends SrcOp> omos]
: ^(blk=BLOCK (^ (OPTIONS .+))?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
 (alternative {alts.add($alternative.altCodeBlock);})+
)
{
 if (alts.size()==1 && ebfnRoot==null) return alts;
 if (ebfnRoot==null) {
 $omos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
 }
 else {
 Choice choice = controller.getEBNFBlock($ebfnRoot, alts);

```

```

 hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
 $omos = DefaultOutputModelFactory.list(choice);
 }
}
;

alternative returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 boolean outerMost = inContext("RULE BLOCK");
}
@after {
 controller.finishAlternative($altCodeBlock, $ops, outerMost);
}
: a=alt[outerMost] { $altCodeBlock=$a.altCodeBlock; $ops=$a.ops; }
;

alt[boolean outerMost] returns [CodeBlockForAlt altCodeBlock, List<SrcOp> ops]
@init {
 // set alt if outer ALT only (the only ones with alt field set to Alternative object)
 AltAST altAST = (AltAST)retval.start;
 if (outerMost) controller.setCurrentOuterMostAlt(altAST.alt);
}
: {
 List<SrcOp> elems = new ArrayList<SrcOp>();
 // TODO: shouldn't we pass $start to controller.alternative()?
 $altCodeBlock = controller.alternative(controller.getCurrentOuterMostAlt(), outerMost);
 $altCodeBlock.ops = $ops = elems;
 controller.setCurrentBlock($altCodeBlock);
}
^(ALT elementOptions? (element {if ($element.omos!=null) elems.addAll($element.omos);})+)

| ^(ALT elementOptions?
EPSILON)
 { $altCodeBlock = controller.epsilon(controller.getCurrentOuterMostAlt(), outerMost); }
;

element returns [List<? extends SrcOp> omos]
: labeledElement { $omos = $labeledElement.omos; }
| atom[null,false] { $omos = $atom.omos; }
| subrule { $omos = $subrule.omos; }
| ACTION { $omos = controller.action((ActionAST)$ACTION); }
| SEMPRED { $omos = controller.sempred((ActionAST)$SEMPRED); }
| ^(ACTION elementOptions) { $omos = controller.action((ActionAST)$ACTION); }
| ^(SEMPRED elementOptions) { $omos = controller.sempred((ActionAST)$SEMPRED); }
;

labeledElement returns [List<? extends SrcOp> omos]
: ^(ASSIGN ID atom[$ID,false]) { $omos = $atom.omos; }

```

```

| ^ (PLUS_ASSIGN ID atom[$ID,false]) { $omos = $atom.omos;}
| ^ (ASSIGN ID block[$ID,null]) { $omos = $block.omos;}
| ^ (PLUS_ASSIGN ID block[$ID,null]) { $omos = $block.omos;}
;

subrule returns [List<? extends SrcOp> omos]
: ^ (OPTIONAL b=block[null,$OPTIONAL])
{
 $omos = $block.omos;
}
| (^ (op=CLOSURE
b=block[null,null])
| ^ (op=POSITIVE_CLOSURE b=block[null,null])
)
{
 List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();
 SrcOp blk = $b.omos.get(0);
 CodeBlockForAlt alt = new CodeBlockForAlt(controller.delegate);
 alt.addOp(blk);
 alts.add(alt);
 SrcOp loop = controller.getEBNFBlock($op, alts); // "star it"
 hasLookaheadBlock |= loop instanceof PlusBlock || loop instanceof StarBlock;
 $omos = DefaultOutputModelFactory.list(loop);
}
| block[null, null] { $omos = $block.omos;}
;

blockSet[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^ (SET atom[label,invert]+) { $omos = controller.set($SET, $label, invert);}
;

/*
setElement
: STRING_LITERAL
| TOKEN_REF
| ^ (RANGE STRING_LITERAL STRING_LITERAL)
;
*/

// TODO: combine ROOT/BANG into one then just make new op ref'ing return value of atom/terminal...
// TODO: same for NOT
atom[GrammarAST label, boolean invert] returns [List<SrcOp> omos]
: ^ (NOT
a=atom[$label, true]) { $omos = $a.omos;}
| range[label] { $omos = $range.omos;}
| ^ (DOT ID terminal[$label])
| ^ (DOT ID ruleref[$label])
| ^ (WILDCARD .) { $omos = controller.wildcard($WILDCARD, $label);}

```



```

| WILDCARD {$omos = controller.wildcard($WILDCARD, $label);}
| terminal[label] {$omos = $terminal.omos;}
| ruleref[label] {$omos = $ruleref.omos;}
| blockSet[$label, invert] {$omos = $blockSet.omos;}
;

```

```

ruleref[GrammarAST label] returns [List<SrcOp> omos]
: ^(RULE_REF ARG_ACTION? elementOptions?) {$omos = controller.ruleRef($RULE_REF, $label,
$ARG_ACTION);}
;

```

```

range[GrammarAST label] returns [List<SrcOp> omos]
: ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
;

```

```

terminal[GrammarAST label] returns [List<SrcOp> omos]
: ^(STRING_LITERAL .) {$omos = controller.stringRef($STRING_LITERAL, $label);}
| STRING_LITERAL {$omos = controller.stringRef($STRING_LITERAL, $label);}
| ^(TOKEN_REF ARG_ACTION .) {$omos =
controller.tokenRef($TOKEN_REF, $label, $ARG_ACTION);}
| ^(TOKEN_REF .) {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
| TOKEN_REF {$omos = controller.tokenRef($TOKEN_REF, $label, null);}
;

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption+)
;

```

```

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

```

Found in path(s):  
\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g  
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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.name>(self<currentRule.args:{a | , <a.name>}>):
```

```
 localctx = <parser.name>.<currentRule.ctxType>(self, self._ctx, self.state<currentRule.args:{a | , <a.name>}>)
```

```
 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.name>(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.name>}>)
 _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(ttypes=look)>
 <alt>
 pass}; separator="\n">
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(ttypes=look)>
 <alt>
 pass}; separator="\n">
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="\n">

>>

```

```

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.ttypes))><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
>>

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})>
and ((1 \<\< <offsetShiftVar(s.varName, bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype,
bits.shift)>)}; separator=" | ">)) != 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>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" or ">
%>

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

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

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.name>"
LocalRef(a) ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(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) ::= "(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.name>"
SetNonLocalAttr(s, rhsChunks) ::= "self.getInvokingContext(<s.ruleIndex>).<s.name> = <rhsChunks>"

```

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

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

```
TokenTypeDecl(t) ::= "self.<t.name> = 0 # <TokenLabelType()> type"
```

```
TokenListDecl(t)
```

```
 ::= "self.<t.name> = list() # of <TokenLabelType()>s"
```

```
RuleContextDecl(r) ::= "self.<r.name> = None # <r.ctxName>"
```

```
RuleContextListDecl(rdecl) ::= "self.<rdecl.name> = list() # of <rdecl.ctxName>s"
```

```
ContextTokenGetterDecl(t) ::= <<
```

```
def <t.name>(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.name>(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.name>(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.name>(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) ::= <<
class <struct.name>(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif>):
```

```
 def __init__(self, parser, parent=None, invokingState=-1<struct.ctorAttrs:{a | , <a.name>=None}>):
 super(<parser.name>.<struct.name>,
```

```
self).__init__(parent, invokingState)
```

```
 self.parser = parser
```

```
 <attrs:{a | <a>}; separator="\n">
```

```
 <struct.ctorAttrs:{a | self.<a.name> = <a.name>}; 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.name> = ctx.<a.name>}; separator="\n">
```

```
<endif>
```

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

```
 <extensionMembers; separator="\n">
```

>>

```
AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
```

```
class <struct.name>(<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.name> = <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.name>"

/** 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) ::= <<
localctx = <parser.name>.<ctxName>Context(self, _parentctx, _parentState)
<if(label)>localctx.<label> = _prevctx<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.channels)>
 <lexer.channels:{c| <c> = <lexer.channels.(c)>}>;
 separator="\n">

 <endif>

 <if(rest(lexer.modes))>
 <rest(lexer.modes):{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.channels)>, <lexer.channels:{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) ::= <<

<! only one segment, can be inlined !>

def serializedATN():

with StringIO() as buf:

buf.write(u"<model.serialized; wrap={}>\n" buf.write(u"}>")

return buf.getvalue()

>>

/\*\* 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):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg

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- \*/

/\*\* templates used to generate make-compatible dependencies \*/

/\*\* Generate "f : x, y, z" dependencies for input

- \* dependencies and generated files. in and out
- \* are File objects. For example, you can say
- \* <f.canonicalPath>
- \*/

```
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}>;
separator="\n">
>>
```

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- \* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/depend.stg

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\*/

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\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/parse/GrammarTreeVisitor.java

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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') +
;

```

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 */

```

```

// 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="<csIdentifier.(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] <csIdentifier.(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] <csIdentifier.(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] <csIdentifier.(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] <csIdentifier.(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="<csIdentifier.(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] <csIdentifier.(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] <csIdentifier.(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 <csIdentifier.(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 string SerializedAtn { get { return new string(_serializedATN); } }

static <csIdentifier.(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 <csIdentifier.(parser.name)>(ITokenStream input) : this(input, Console.Out, Console.Error) { }

public <csIdentifier.(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>
<csIdentifier.(currentRule.name)>(<args; separator=", ">) {
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{a | ,
<csIdentifier.(a.name)>>});
 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> <csIdentifier.(currentRule.name)>(<args; separator=", ">) {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{ a | ,
<csIdentifier.(a.name)>}>});
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> <csIdentifier.(currentRule.name)>(<args; separator=", ">) {
<currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, State<currentRule.args:{ a | ,
<csIdentifier.(a.name)>}>});
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> <csIdentifier.(currentRule.name)>(<args; separator=", ">) {
return <csIdentifier.(currentRule.name)>(0<currentRule.args:{a | , <csIdentifier.(a.name)>}>)};
}

private <currentRule.ctxType> <csIdentifier.(currentRule.name)>(int _p<args:{a | , <a>}>) {
 ParserRuleContext _parentctx = Context;
 int _parentState = State;
 <currentRule.ctxType> _localctx = new <currentRule.ctxType>(Context, _parentState<currentRule.args:{a | ,
<csIdentifier.(a.name)>}>);
 <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(ttypes=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(ttypes=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.ttypes)))><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.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange(<offsetShift(s.varName, bits.shift)>)> && ((1L \<\< <offsetShift(s.varName, bits.shift)>) &
(<bits.ttypes:{ttype | (1L \<\< <offsetShift(tokenType.(ttype), bits.shift)>)}; separator=" | ">)) != 0)
%>

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

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

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<tokenType.(ttype)>}; separator=" || ">
%>

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

```



```

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif><csIdentifier.(r.name)>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><arg
ExprsChunks>;
>>

```

```

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.<csIdentifier.(a.name)>"
LocalRef(a)
 ::= "_localctx.<csIdentifier.(a.name)>"
RetValRef(a) ::= "_localctx.<csIdentifier.(a.name)>"
QRetValRef(a) ::= "<ctx(a)>.<a.dict>.<csIdentifier.(a.name)>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<csIdentifier.(tokenType.(t.name))>"
LabelRef(t) ::= "<ctx(t)>.<csIdentifier.(t.name)>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(csIdentifier.(t.name))>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<csIdentifier.(s.name)> = <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>)).<csIdentifier.(s.name)>%>
SetNonLocalAttr(s, rhsChunks) ::=
 <%((<s.ruleName; format="cap">Context)GetInvokingContext(<s.ruleIndex>)).<csIdentifier.(s.name)> =
<rhsChunks>;%>

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

TokenDecl(t) ::= "<TokenLabelType() <csIdentifier.(tokenType.(t.name))>"
TokenTypeDecl(t) ::= "int <csIdentifier.(tokenType.(t.name))>;"
TokenListDecl(t) ::= "IList<IToken> <csIdentifier.(tokenType.(t.name))> = new List<IToken>()"
RuleContextDecl(r) ::= "<r.ctxName> <csIdentifier.(r.name)>"
RuleContextListDecl(rdecl) ::= "IList<<rdecl.ctxName>> <csIdentifier.(rdecl.name)> = new
List<<rdecl.ctxName>>()"

contextGetterCollection(elementType) ::= <%
<elementType>[]
%>

ContextTokenGetterDecl(t) ::=
 "[System.Diagnostics.DebuggerNonUserCode]
 public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
 GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection("ITerminalNode")>
<csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>

ContextRuleGetterDecl(r) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>() {
return GetRuleContext<<r.ctxName>>>(0);
}
>>

```

```

ContextRuleListGetterDecl(r) ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <contextGetterCollection({<r.ctxName>})>
<csIdentifier.(r.name)>() {
 return GetRuleContexts\<<r.ctxName>\>();
}
>>

ContextRuleListIndexedGetterDecl(r)
 ::= <<
[System.Diagnostics.DebuggerNonUserCode] public <r.ctxName> <csIdentifier.(r.name)>(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,
 superClass={ParserRuleContext}) ::= <<
public partial class <struct.name> :
<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.name>(ParserRuleContext parent, int invokingState) : base(parent, invokingState) {
 }<endif>
 public <struct.name>(ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>>})
 : base(parent, invokingState)
 {
 <struct.ctorAttrs:{a | this.<csIdentifier.(a.name)> = <csIdentifier.(a.name)>;}; separator="\n">
 }
 public override int RuleIndex { get { return RULE_<struct.derivedFromName>; } }
 <if(struct.provideCopyFrom)><!-- don't need copy unless we have subclasses !>
 public <struct.name>() { }
 public virtual void CopyFrom(<struct.name> context) {
 base.CopyFrom(context);

```

```

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

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
public partial class <struct.name> : <currentRule.name>;
format="cap">Context {
 <attrs:{a | public <a>;}; separator="\n">
 <getters:{g | <g>;}; separator="\n">
 public <struct.name>(<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>(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> <csIdentifier.(d.name)><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><csIdentifier.(x.name)>"

```

```

/** 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 <csIdentifier.(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.channels)>
public const int
<lexer.channels:{k | <csIdentifier.(k)>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
public
const int
<rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>;
<endif>
public static string[] channelNames = {
"DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>, <lexer.channels:{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 <csIdentifier.(lexer.name)>(ICharStream input)
: this(input, Console.Out, Console.Error) { }
```

```
public <csIdentifier.(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 string SerializedAtn { get { return new string(_serializedATN); } }
```

```
static <csIdentifier.(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 char[] _serializedATN = {
 <model.serialized; 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
]
```

```
csIdentifier ::= [
 "abstract" : "@abstract",
 "as" : "@as",
 "base" : "@base",
 "bool" : "@bool",
 "break" : "@break",
 "byte" : "@byte",
 "case" : "@case",
 "catch" : "@catch",
 "char" : "@char",
 "checked" : "@checked",
 "class" : "@class",
 "const" : "@const",
 "continue" : "@continue",
 "decimal" : "@decimal",
 "default" : "@default",
 "delegate" : "@delegate",
 "do" : "@do",
 "double" : "@double",
 "else" : "@else",
 "enum" : "@enum",
 "event" : "@event",
 "explicit" : "@explicit",
 "extern" : "@extern",
 "false" : "@false",
```

"finally" : "@finally",  
"fixed" : "@fixed",  
"float" : "@float",  
"for" : "@for",  
"foreach" : "@foreach",  
"goto" : "@goto",  
"if" : "@if",  
"implicit" : "@implicit",  
"in" : "@in",  
"int" : "@int",  
"interface" : "@interface",  
"internal" : "@internal",  
"is" : "@is",  
"lock" : "@lock",  
"long" : "@long",  
"namespace" : "@namespace",  
"new" : "@new",  
"null" : "@null",  
"object"  
: "@object",  
"operator" : "@operator",  
"out" : "@out",  
"override" : "@override",  
"params" : "@params",  
"private" : "@private",  
"protected" : "@protected",  
"public" : "@public",  
"readonly" : "@readonly",  
"ref" : "@ref",  
"return" : "@return",  
"sbyte" : "@sbyte",  
"sealed" : "@sealed",  
"short" : "@short",  
"sizeof" : "@sizeof",  
"stackalloc" : "@stackalloc",  
"static" : "@static",  
"string" : "@string",  
"struct" : "@struct",  
"switch" : "@switch",  
"this" : "@this",  
"throw" : "@throw",  
"true" : "@true",  
"try" : "@try",  
"typeof" : "@typeof",  
"uint" : "@uint",  
"ulong" : "@ulong",  
"unchecked" : "@unchecked",  
"unsafe" : "@unsafe",

```
"ushort" : "@ushort",
"using" : "@using",
"virtual" : "@virtual",
"values" : "@values",
"void" : "@void",
"volatile" : "@volatile",
"while" : "@while",
default : key
]
```

Found in path(s):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg

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

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

```
dartTypeInitMap ::= [
 "int": "0",
 "double": "0.0",
 "bool": "false",
 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)>
 library <file.genPackage>;
```

```
import 'package:antlr4/antlr4.dart';
import 'dart:io';
```

```
<if(file.genListener)>
 part '<file.grammarName>Listener.dart';
 part '<file.grammarName>BaseListener.dart';
<endif>
<if(file.genVisitor)>
 part '<file.grammarName>Visitor.dart';
 part '<file.grammarName>BaseVisitor.dart';
<endif>
 part '<file.grammarName>Lexer.dart';
<else>
 import 'package:antlr4/antlr4.dart';
 import 'dart:io';
```

```
<if(file.genListener)>
 import '<file.grammarName>Listener.dart';
 import '<file.grammarName>BaseListener.dart';
<endif>
<if(file.genVisitor)>
 import '<file.grammarName>Visitor.dart';
 import '<file.grammarName>BaseVisitor.dart';
<endif>
<endif>
```

```
<namedActions.header>
<parser>
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
 <fileHeader(file.grammarFileName, file.ANTLRVersion)>
 <if(file.genPackage)>
```

```

part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>
<header>

///
This abstract class defines a complete listener for a parse tree produced by
/// [<file.parserName>].
abstract class <file.grammarName>Listener extends ParseTreeListener {
<file.listenerNames>:{lname |
<if(file.listenerLabelRuleNames.(lname))>
/// Enter a parse tree produced by the [<lname>]
/// labeled alternative in [file.parserName>.<file.listenerLabelRuleNames.(lname)>].
<else>
/// Enter a parse tree produced by [<file.parserName>.<lname>].
<endif>
/// [ctx] the parse tree
void enter<lname; format="cap">(<lname; format="cap">Context ctx);
<if(file.listenerLabelRuleNames.(lname))>
/// Exit a parse tree produced by the [<lname>]
/// labeled alternative in [<file.parserName>.<file.listenerLabelRuleNames.(lname)>].
<else>
/// Exit a parse tree produced by [<file.parserName>.<lname>].
<endif>
/// [ctx] the parse tree
void exit<lname; format="cap">(<lname; format="cap">Context ctx);}; separator="\n">
}
>>

```

```

BaseListenerFile(file, header, namedActions)
::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
import '<file.grammarName>Listener.dart';
<endif>

<header>

```

```

/// This class provides an empty implementation of [<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 |

/// The default implementation does nothing.
@Override
void enter<lname; format="cap">(<lname; format="cap">Context ctx) {}

/// The default implementation does nothing.
@Override
void exit<lname; format="cap">(<lname; format="cap">Context ctx) {}}; separator="\n">

/// The default implementation does nothing.
@Override
void enterEveryRule(ParserRuleContext ctx) {}

/// The default implementation does nothing.
@Override
void exitEveryRule(ParserRuleContext ctx) {}

/// The default implementation does nothing.
@Override
void visitTerminal(TerminalNode node) {}

/// The default implementation does nothing.
@Override
void visitErrorNode(ErrorNode node) {}
}

```

```
>>
```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
<endif>
<header>

/// This abstract class defines a complete generic visitor for a parse tree
/// produced by [<file.parserName>].
///
/// [T] is the return type of the visit operation. Use `void` for
/// operations with no return type.
abstract class <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 [<file.parserName>.<lname>].
<endif>
/// [ctx] the parse tree.
/// Return the visitor result.
T visit<lname; format="cap">(<lname; format="cap">Context ctx);}; separator="\n">
}
>>

```

```

BaseVisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
<if(file.genPackage)>
part of <file.genPackage>;
<else>
import 'package:antlr4/antlr4.dart';

import '<file.parserName>.dart';
import '<file.grammarName>Visitor.dart';
<endif>
<header>

```

```

/// This class provides an empty implementation of [<file.grammarName>Visitor],
/// which can be extended to create a visitor which only needs to handle
/// a subset of the available methods.
///
/// [T] is the return type of the visit operation. Use `void` for
/// operations with no return type.
class <file.grammarName>BaseVisitor<T> extends ParseTreeVisitor<T> implements
<file.grammarName>Visitor<T> {
 <file.visitorNames:{lname |
/// The default implementation
returns the result of calling
/// [visitChildren] on [ctx].
@override
T visit<lname; format="cap">(<lname; format="cap">Context ctx) => visitChildren(ctx);}; separator="\n">
}
>>

```

```

fileHeader(grammarFileName, ANTLRVersion) ::= <<
// Generated from <grammarFileName> by ANTLR <ANTLRVersion>
// ignore_for_file: unused_import, unused_local_variable, prefer_single_quotes
>>

```

```

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

Parser_(parser, funcs, atn, sempredFuncs, ctor, superClass) ::= <<
<if(namedActions.definitions)><namedActions.definitions><endif>
<if(parser.rules)>
const int <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
<endif>
class <parser.name> extends <superClass; null="Parser"> {
 static final checkVersion = () => RuntimeMetaData.checkVersion('<file.ANTLRVersion>',
RuntimeMetaData.VERSION);
 static const int TOKEN_EOF = IntStream.EOF;

 static final List<DFA> _decisionToDFA = List.generate(

 _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
 static final PredictionContextCache _sharedContextCache = PredictionContextCache();
 <if(parser.tokens)>
 static const int <parser.tokens:{k | TOKEN_<k> = <parser.tokens.(k)>}; separator=", ", wrap, anchor>;
 <endif>

 @override
 final List<String> ruleNames = [
 <parser.ruleNames:{r | '<r>'}; separator=", ", wrap, anchor>
];

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

 @override
 String get grammarFileName => '<parser.grammarFileName>';

 @override
 String get serializedATN => _serializedATN;

 @override
 ATN getATN() {
 return _ATN;
 }

 <namedActions.members>
 <parser:(ctor)()>
 <funcs; separator="\n">

 <if(sempredFuncs)>
 @override
 bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {

```



```

 <parser.sempredFuncs.values:{f|
case <f.ruleIndex>:
return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
 }
 return true;
}
 <sempredFuncs.values; separator="\n">
<endif>

<atn>
}
<funcs:{func | <if(func.ruleCtx)><func.ruleCtx><endif>}; separator="\n\n">

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

vocabulary(literalNames, symbolicNames) ::= <<
static final List<String> _LITERAL_NAMES = [
 <literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final List<String> _SYMBOLIC_NAMES = [
 <symbolicNames:{t | <t>}; null="null", separator=", ", wrap, anchor>
];
static final Vocabulary VOCABULARY = VocabularyImpl(_LITERAL_NAMES, _SYMBOLIC_NAMES);

@Override
Vocabulary get vocabulary {
 return VOCABULARY;
}
>>

dumpActions(recog, argFuncs, actionFuncs, sempredFuncs) ::= <<
<if(actionFuncs)>
void action(RuleContext _localctx, int ruleIndex, int actionIndex) {
 switch (ruleIndex) {
 <recog.actionFuncs.values:{f|
case <f.ruleIndex>:
 _<f.name>_action(_localctx, actionIndex);
 break;}; separator="\n">
 }
 }
 <actionFuncs.values;
 separator="\n">
<endif>
<if(sempredFuncs)>
bool sempred(RuleContext _localctx, int ruleIndex, int predIndex) {
 switch (ruleIndex) {

```

```

 <recog.sempredFuncs.values:{f|
case <f.ruleIndex>:
 return _<f.name>_sempred(_localctx, predIndex);}; separator="\n">
 }
 return true;
}
<sempredFuncs.values; separator="\n">
<endif>
>>

parser_ctor(p) ::= <<
<p.name>(TokenStream input) : super(input) {
 interpreter = 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) ::= <<
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) ::= <<
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(currentRule.modifiers)><currentRule.modifiers:{f | <f> }><else><endif><currentRule.ctxType>
<currentRule.name>(<args; separator=", ">) {
 dynamic _localctx = <currentRule.ctxType>(context, state<currentRule.args:{a | , <a.name>}>);
 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>on RecognitionException catch (re) {
 _localctx.exception = re;
 errorHandler.reportError(this, re);
 errorHandler.recover(this,
re);
}<endif> finally {
 <finallyAction>
 exitRule();
}
return _localctx;
}
>>

```

```

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

```

```

<currentRule.ctxType> <currentRule.name>([int _p = 0]<args:{a | , <a>}>)> {
 final _parentctx = context;
 final _parentState = state;
 dynamic _localctx = <currentRule.ctxType>(context, _parentState<currentRule.args:{a | , <a.name>}>);
 var _prevctx = _localctx;
 var _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>
 } on RecognitionException catch (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 = <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(ttypes=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(ttypes=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 != 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 != ATN.INVALID_ALT_NUMBER);
>>

```

```

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

```

```

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

```

```

TestSetInline(s) ::= <<
<s.bitsets:{bits | <if(rest(rest(bits.ttypes)))><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.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShift(s.varName, bits.shift)>})> && ((BigInt.one \<\< <offsetShift(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (BigInt.one \<\< <offsetShift({TOKEN_<ttype>}, bits.shift)>)}; separator=" |
">)) != BigInt.zero)
%>

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

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

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName> == TOKEN_<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<types:{t | case TOKEN_<t>:}; separator="\n">
>>

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

MatchToken(m) ::= <<
state = <m.stateNumber>;
<if(m.labels)><m.labels:{l | <labelref(l)> = }><endif>match(TOKEN_<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 {
 if (tokenStream.LA(1)==IntStream.EOF) matchedEOF = true;
 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 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.name>"
LocalRef(a) ::= "_localctx.<a.name>"
RetValRef(a)
 ::= "_localctx.<a.name>"
QRetValRef(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>?.text"
TokenPropertyRef_type(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.type : 0"
TokenPropertyRef_line(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.line : 0"
TokenPropertyRef_pos(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.charPositionInLine : 0"
TokenPropertyRef_channel(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.channel : 0"
TokenPropertyRef_index(t) ::= "<ctx(t)>.<t.label> != null ? <ctx(t)>.<t.label>.tokenIndex : 0"
TokenPropertyRef_int(t) ::= "<ctx(t)>.<t.label> != null ?
 int.parse(<ctx(t)>.<t.label>.text) : 0"

RulePropertyRef_start(r) ::= "<ctx(r)>.<r.label>?.start"
RulePropertyRef_stop(r) ::= "<ctx(r)>.<r.label>?.stop"
RulePropertyRef_text(r) ::= "(<ctx(r)>.<r.label> != null ? tokenStream.getTextRange(<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.getTextRange(_localctx.start, tokenStream.LT(-1))"
ThisRulePropertyRef_ctx(r) ::= "_localctx"
ThisRulePropertyRef_parser(r) ::= "this"

NonLocalAttrRef(s) ::= "(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::=
 "(getInvokingContext(<s.ruleIndex>) as <s.ruleName; format=\"cap\">Context).<s.name> = <rhsChunks>;"

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

```

```

TokenDecl(t)
::= "<TokenLabelType()> <t.name>"
TokenTypeDecl(t) ::= "int <t.name>,"
TokenListDecl(t) ::= "List<Token> <t.name> = List<Token>()"
RuleContextDecl(r) ::= "<r.ctxName> <r.name>"
RuleContextListDecl(rdecl) ::= "List<<rdecl.ctxName>> <rdecl.name> = List<<rdecl.ctxName>>()"

```

```

ContextTokenGetterDecl(t) ::= <<
TerminalNode <t.name>() => getToken(<parser.name>.TOKEN_<t.name>, 0);
>>

ContextTokenListGetterDecl(t) ::= <<
List<TerminalNode> <t.name>s() => getTokens(<parser.name>.TOKEN_<t.name>);
>>

ContextTokenListIndexedGetterDecl(t) ::= <<
TerminalNode <t.name>(int i) => getToken(<parser.name>.TOKEN_<t.name>, i);
>>

ContextRuleGetterDecl(r) ::= <<
<r.ctxName> <r.name>() => getRuleContext<<r.ctxName>>()>(0);
>>

ContextRuleListGetterDecl(r) ::= <<
List<<r.ctxName>> <r.name>s() => getRuleContexts<<r.ctxName>>()>();
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.ctxName> <r.name>(int i) => 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) ::= "_<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)
::= <<
class <struct.name> extends
<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif><if(interfaces)> implements
<interfaces; separator=", "><endif> {
<attrs:{a | <a>;}; separator="\n">
<getters:{g | <g>;}; separator="\n">

```

```

<struct.name>([ParserRuleContext parent, int invokingState<ctorAttrs:{a | , <a>}>]) : super(parent,
invokingState)<if(struct.ctorAttrs)> {
 <struct.ctorAttrs:{a | this.<a.name> = <a.name>;}; separator="\n">
}<else>;<endif>

```

@override

```

int get ruleIndex => RULE_<struct.derivedFromName>;
<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
@override
void copyFrom(<if(contextSuperClass)><contextSuperClass><else>ParserRuleContext<endif> ctx) {
 super.copyFrom(ctx);
 <struct.attrs:{a | this.<a.name> = (ctx as <struct.name>).<a.name>;}; separator="\n">
}
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">
}
>>

```

```

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> extends <struct.parentRule; format="cap">Context {
 <attrs:{a | <a>;}; separator="\n">
 <getters:{g | <g>;}; separator="\n">
 <struct.name>(<struct.parentRule; format="cap">Context ctx) { copyFrom(ctx); }
 <dispatchMethods; separator="\n">
}
>>

```

```

ListenerDispatchMethod(method) ::= <<
@override
void <if(method.isEnter)>enter<else>exit<endif>Rule(ParseTreeListener listener) {
 if (listener is <parser.grammarName>Listener)
 listener.<if(method.isEnter)>enter<else>exit<endif><struct.derivedFromName>;
 format="cap">(this);
}
>>

```

```

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

```

```

AttributeDecl(d) ::= "<d.type> <d.name><if(d.initValue)> = <d.initValue><endif>"

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

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

// 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 = <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 = <currentAltLabel; format="cap">Context(new <ruleName; format="cap">Context(_parentctx,
_parentState));
<if(label)>
<if(isListLabel)>
_localctx.<label>.add(_prevctx);
<else>
_localctx.<label> = _prevctx;
<endif>
<endif>
pushNewRecursionContext(_localctx, _startState, RULE_<ruleName>);
>>

recRuleReplaceContext(ctxName) ::= <<
_localctx = <ctxName>Context(_localctx);
context = _localctx;
_prevctx = _localctx;
>>

recRuleSetPrevCtx() ::= <<
if (parseListeners != null) triggerExitRuleEvent();

```

```
_prevctx = _localctx;
>>
```

```
LexerFile(lexerFile, lexer, namedActions) ::= <<
<fileHeader(lexerFile.grammarFileName, lexerFile.ANTLRVersion)>
<if(lexerFile.genPackage)>
part of <lexerFile.genPackage>;
<else>
import
'package:antlr4/antlr4.dart';
<endif>
<namedActions.header>

<lexer>
>>
```

```
Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(namedActions.definitions)><namedActions.definitions><endif>
```

```
class <lexer.name> extends <superClass; null="Lexer"> {
static final checkVersion = () => RuntimeMetaData.checkVersion('<lexerFile.ANTLRVersion>',
RuntimeMetaData.VERSION);
```

```
static final List<DFA> _decisionToDFA = List.generate(
 _ATN.numberOfDecisions, (i) => DFA(_ATN.getDecisionState(i), i));
static final PredictionContextCache _sharedContextCache = PredictionContextCache();
<if(lexer.tokens)>
static const int
 <lexer.tokens:{k | TOKEN_<k> = <lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<endif>
<if(lexer.channels)>
static const int
 <lexer.channels:{c | <c> = <lexer.channels.(c)>}; separator=", ", wrap, anchor>;
<endif>
<if(rest(lexer.modes))>
static const int
 <rest(lexer.modes):{m | <m> = <i>}; separator=", ", wrap, anchor>;
<endif>
```

```
@override
final List<String> channelNames = [
 'DEFAULT_TOKEN_CHANNEL', 'HIDDEN'<if (lexer.channels)>, <lexer.channels:{c | '<c>'}; separator=", ",
wrap, anchor><endif>
];
```

```
@override
final List<String> modeNames = [
```

```

 <lexer.modes:{m| '<m>'}; separator=", ", wrap, anchor>
];

@override
final List<String> ruleNames = [
 <lexer.ruleNames:{r| '<r>'}; separator=", ", wrap, anchor>
];

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

<namedActions.members>

<lexer.name>(CharStream input) : super(input) {
 interpreter = LexerATNSimulator(_ATN, _decisionToDFA, _sharedContextCache, recog: this);
}

@override
String get serializedATN => _serializedATN;

@override
String get grammarFileName => '<lexer.grammarFileName>';

@override
ATN getATN() { return _ATN; }

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

SerializedATN(model) ::= <<
<if(rest(model.segments))>
<! requires segmented representation !>
static const int _serializedATNSegments
 = <length(model.segments)>;
<model.segments:{segment|static final String _serializedATNSegment<i0> =
 '<segment; wrap={ '<\n><\t>' }>;'; separator="\n">
static final String _serializedATN = [
 <model.segments:{segment | _serializedATNSegment<i0>}; separator=", \n">
].join();
<else>
<! only one segment, can be inlined !>
static const String _serializedATN = '<model.serialized; wrap={ '<\n><\t>' }>;
<endif>
static final ATN _ATN =
 ATNDeserializer().deserialize(_serializedATN.codeUnits);
>>

```

```
/// 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) ::= <<
<dartTypeInitMap.(typeName)>
>>
```

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

Found in path(s):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/codegen/Dart/Dart.stg

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

```
/*
```

```
* Copyright (c) 2012-2017 The ANTLR Project. All rights reserved.
```

```
* 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.
```

```
*/
```

```
/**
```

```
[The "BSD license"]
```

```
Copyright (c) 2011 Cay Horstmann
```

```
All rights reserved.
```

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```
*/
```

Found in path(s):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/gui/GraphicsSupport.java  
No license file was found, but licenses were detected in source scan.

```
/*
 * [The "BSD license"]
 * Copyright (c) 2012-2016 Terence Parr
 * Copyright (c) 2012-2016 Sam Harwell
 * Copyright (c) 2014 Eric Vergnaud
 * 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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 * notice, this list of conditions and the following disclaimer.
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 * notice, this list of conditions and the following disclaimer in the
 * documentation and/or other materials provided with the distribution.
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 *
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 * IMPLIED
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 * OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED.
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 * 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.
 */
```

```
/** 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; format="java-escape"> 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.PredictionContextCache();

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

 static grammarFileName = "<parser.grammarFileName; format="java-escape">";
 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>
 }
}

```

```

get atn() {
 return atn;
}

<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.name>(<currentRule.args:{a | <a.name>}; separator=", ">) {
 let localctx = new <currentRule.ctxType>(this, this._ctx, this.state<currentRule.args:{a | , <a.name>}>);
 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.name>(_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.name>}>);
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(ttypes=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(ttypes=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.ttypes)))><bitsetBitfieldComparison(s, bits)><else><bitsetInlineComparison(s,
bits)><endif>}; separator=" || ">
>>

```

```

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

```

```

// produces smaller bytecode only when bits.ttypes contains more than two items
bitsetBitfieldComparison(s, bits) ::= <%
(<testShiftInRange({<offsetShiftVar(s.varName, bits.shift)>})> && ((1 \<\< <offsetShiftVar(s.varName,
bits.shift)>) & (<bits.ttypes:{ttype | (1 \<\< <offsetShiftType(ttype, bits.shift)>)}; separator=" | ">)) != 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>
%>

// produces more efficient bytecode when bits.ttypes contains at most two items
bitsetInlineComparison(s, bits) ::= <%
<bits.ttypes:{ttype | <s.varName>==<parser.name>.<ttype>}; separator=" || ">
%>

cases(ttypes) ::= <<
<types:{t | case <parser.name>.<t>:}; separator="\n">
>>

InvokeRule(r,
argExprsChunks) ::= <<
this.state = <r.stateNumber>;
<if(r.labels)><r.labels:{l | <labelref(l)> =
}><endif>this.<r.name>(<if(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)>,<endif><endif><argExprsChu
nks>);
>>

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.name>"
LocalRef(a)
 ::= "localctx.<a.name>"
RetValRef(a) ::= "localctx.<a.name>"
QRetValRef(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 ? 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.name>"
SetNonLocalAttr(s, rhsChunks) ::= "this.getInvokingContext(<s.ruleIndex>).<s.name>
 = <rhsChunks>"

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

TokenDecl(t) ::= "this.<t.name> = null; // <TokenLabelType>"
TokenTypeDecl(t) ::= "var <t.name> = 0; // <TokenLabelType> type"
TokenListDecl(t) ::= "this.<t.name> = []; // of <TokenLabelType>s"
RuleContextDecl(r) ::= "this.<r.name> = null; // <r.ctxName>"
RuleContextListDecl(rdecl) ::= "this.<rdecl.name> = []; // of <rdecl.ctxName>s"

```

```

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

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

ContextTokenListIndexedGetterDecl(t) ::= <<
<t.name> = 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.name>() {
 return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

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

ContextRuleListIndexedGetterDecl(r) ::= <<
<r.name> = 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)

```

```

::= <<

```

```

class <struct.name> extends <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif> {

```

```

 constructor(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {

```

```

 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.name> = <a.name> || 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.name> = ctx.<a.name>;}; separator="\n">

```

```

 }

```

```

 <endif>

```

```

 <dispatchMethods; separator="\n">

```

```

<extensionMembers;
separator="\n">

}

>>

AltLabelStructDecl(struct,attrs, getters,dispatchMethods) ::= <<
class <struct.name> 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.name>;

```

```

>>

```

```

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.name> = <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.name>"

/** 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) ::= <<
localctx = new <ctxName>Context(this, _parentctx, _parentState);
<if(label)>localctx.<label> = _prevctx;<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.channels)>,
<lexer.channels:{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.PredictionContextCache());
 <namedActions.members>
 }

 get atn() {
 return atn;
 }
}

<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.channels)>

```

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

```
<endif>
```

```
<if(rest(lexer.modes))>
```

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

```
<endif>
```

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

```
>>
```

```
SerializedATN(model) ::= <<
```

```
<! only one segment, can be inlined !>
```

```
const serializedATN = ["<model.serialized; wrap={", <\n> "}>"].join("");
```

```
>>
```

```
/** 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) ::= <<
```

```
<javascriptTypeInitMap.(typeName)>
```

```
>>
```

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

Found in path(s):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg

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

```
/*
```

```
[The "BSD licence"]
```

```
Copyright (c) 2006 Kay Roepke
```

```
All rights reserved.
```

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\*/

/\*

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

The text itself is coming out of the languages/\*stg files, according to the chosen locale.

This file contains the default format ANTLR uses.

\*/

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

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

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

wantsSingleLineMessage() ::= "true"

Found in path(s):

\* /antlr4-4-9-2-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg

## 1.237 @splunk/visualization-encoding-parsers 25.13.1

### 1.237.1 Available under license :

UNRECOGNIZED LICENSE; MD5 sum: 2dfd80aa4a8acef0dec2e153dd2c9d78

# \*\*SPLUNK GENERAL TERMS\*\*

Last Updated: February 10, 2023

These Splunk General Terms (&quot;General Terms&quot;) between Splunk Inc., a Delaware corporation, with its principal place of business at 270 Brannan Street, San Francisco, California 94107, U.S.A (&quot;Splunk&quot; or &quot;we&quot; or &quot;us&quot; or &quot;our&quot;) and you (&quot;Customer&quot; or &quot;you&quot; or &quot;your&quot;) apply to the purchase of licenses and subscriptions for Splunks Offerings. By clicking on the appropriate button, or by downloading, installing, accessing or using the Offerings, you agree to these General Terms. If you are entering into these General Terms on behalf of Customer, you represent that you have the authority to bind Customer. If you do not agree to these General Terms, or if you are not authorized to accept the General Terms on behalf of the Customer, do not download, install, access, or use any of the Offerings.

**\*\*See the General Terms Definitions Exhibit attached for definitions of capitalized terms not defined herein.\*\***

**#### \*\*1. License Rights\*\***

A. **\*\*General Rights.\*\*** You have the nonexclusive, worldwide, nontransferable and nonsublicensable right, subject to payment of applicable Fees and compliance with the terms of these General Terms, to use your Purchased Offerings for your Internal Business Purposes during the Term and up to the Capacity purchased.

B. **\*\*Copies for On-Premise Products.\*\*** You have the right to make a reasonable number of copies of On-Premises Products for archival and back-up purposes.

C. **\*\*Splunk Extensions.\*\*** You may use Splunk Extensions solely in connection with the applicable Purchased Offering subject to the same terms and conditions for that Offering (including with respect to Term) and payment of any Fees associated with the Splunk Extensions. Some Splunk Extensions may be made available under license terms that provide broader rights than the license rights you have to the applicable underlying Offering (e.g., if the Extension is Open Source Software). These broader rights will apply to that Splunk Extension. Splunk Extensions may be installed on Hosted Services pursuant to our instructions.

D. **\*\*Trials, Evaluations, Beta and Free Licenses.\*\***

<ol type="i">

<li><b>Trials and Evaluations.</b> Offerings provided for trials and evaluations are provided at no charge, and their use will be for a limited duration.</li>

<li><b>Beta Licenses.</b> Some Offerings and features may be available to you as a preview, or as an alpha, beta or other pre-release version (each, a "<b>Beta Offering</b>"). All rights for Beta Offerings are solely for internal testing and evaluation. Your use of a Beta Offering will be for the term specified by us, and if no term is specified, then for the earlier of one year from the start date of the Beta Offering or when that version of the Beta Offering becomes generally available. We may discontinue the Beta Offering at any time and may decide not to make any of the features and

functionality generally available.</li>

<li><b>Free Licenses.</b> From time to time, we may make certain Offerings available for full use (i.e., not subject to limited evaluation purposes) at no charge. These free Offerings may have limited features, functions, and other technical limitations.</li>

<li><b>Donated Offerings.</b> Donated Offerings are free limited Offerings donated to qualifying Nonprofits under a Splunk donation program. By procuring and making use of a Donated Offering, you hereby represent and warrant that you are a lawfully organized Nonprofit, and you agree to provide verification of your nonprofit status to Splunk upon request. At Splunk's request, you agree: (a) to publish a press release and case study on your use of the Donated Offering; and (b) to be interviewed for the production of a Splunk customer video that will accompany the press release and case study. Splunk will draft and edit all content in collaboration with you and will obtain your edits and

written approval (email is sufficient) prior to publication, and such approval will not be unreasonably withheld. You will allow Splunk to reference your Nonprofit and leading spokespeople in press releases with your written approval (email is sufficient). Splunk may use your name and logo on sales presentations, websites, and other marketing collateral without your prior approval.</li>

<li><b>Test and Development Licenses.</b> For Offerings identified as "<b>Test and Development</b>" Offerings on your Order, you only have the right to use those Offerings up to the applicable Capacity on a non-

production system for non-production uses, including product migration testing or pre-production staging, or testing new data sources, types, or use cases. Test and Development Offerings may not be used for any revenue generation, commercial activity, or other productive business or purpose.

**Limitations.** Notwithstanding anything to the contrary in these General Terms, we do not provide maintenance and support, warranties, service level commitments, or indemnification for Test and Development Offerings, trials, evaluations, or free or Beta Offerings.

## \*\*\*2. Purchasing Through Authorized Resellers, Digital Marketplaces, and Splunk Affiliates\*\*\*

A. **Authorized Resellers and Digital Marketplaces.** If you purchase Offerings through a Splunk authorized reseller or Digital Marketplace, these General Terms will govern those Offerings. Your payment obligations for the Purchased Offerings will be with the authorized reseller or Digital Marketplace, as applicable, not Splunk. You will have no direct Fee payment obligations to Splunk for those Offerings. However, in the event that you fail to pay the Digital Marketplace for your Purchased Offerings, Splunk retains the right to enforce your payment obligations and collect directly from you.

Any terms agreed to between you and the authorized reseller that are in addition to these General Terms are solely between

you and the authorized reseller and Digital Marketplace, as applicable. No agreement between you and an authorized reseller or Digital Marketplace is binding on Splunk or will have any force or effect with respect to the rights in, or the operation, use or provision of, the Offerings.

B. **Splunk Affiliate Distributors.** Splunk has appointed certain Splunk Affiliates as its non-exclusive distributors of the Offerings (each, a “Splunk Affiliate Distributor”). Each Splunk Affiliate Distributor is authorized by Splunk to negotiate and enter into Orders with Customers. Where a purchase from Splunk is offered by a Splunk Affiliate Distributor, Customer will issue Orders, and make payments, to the Splunk Affiliate Distributor which issued the quote for the Offering. Each Order will be deemed a separate contract between Customer and the relevant Splunk Affiliate Distributor and will be subject to these General Terms. For the avoidance of doubt, Customer agrees that: (i)

the total liability of Splunk under these General Terms as set forth in Section 22 (Limitation of Liability) states the overall combined liability of Splunk and Splunk Affiliate Distributors; (ii) the entering into Orders by a Splunk Affiliate Distributor will not be deemed to expand Splunk and its Affiliates overall responsibilities or liability under these General Terms; and (iii) Customer will have no right to recover more than once from the same event.

## \*\*\*3. Your Contractors and Third-Party Providers\*\*\*

You may permit your authorized consultants, contractors, and agents (“Third-Party Providers”) to access and use your Purchased Offerings, but only on your behalf in connection with providing services to you, and subject to the terms and conditions of these General Terms. Any access or use by a Third-Party Provider will be subject to the same limitations and restrictions that apply to you under these General Terms, and you will be responsible for any Third-Party Providers

actions relating to their use of the Offering. The aggregate use by you and all of your Third-Party Providers must not exceed the Capacity purchased, and nothing in this Section is intended to or will be deemed to increase such Capacity.

## \*\*\*4. Hosted Services and Specific Offering Terms\*\*\*

- A. **\*\*Service Levels.\*\*** When you purchase Hosted Services as a Purchased Offering, we will make the applicable Hosted Services available to you during the Term in accordance with these General Terms. The Service Level Schedules (as identified in the Specific Offering Terms referenced in Section 4(F) below) and associated remedies will apply to the availability and uptime of the applicable Hosted Service. If applicable, service credits will be available for downtime in accordance with the Service Level Schedule.
- B. **\*\*Connections.\*\*** You are responsible for obtaining and maintaining all telecommunications, broadband and computer equipment and services needed to access and use Hosted Services, and for paying all associated charges.
- C. **\*\*Your Responsibility for Data Protection.\*\*** You are responsible for: (i) selecting from the security configurations and security options made available by Splunk in connection with a Hosted Service; (ii) taking additional measures outside of the Hosted Service to the extent the Hosted Service Offering does not provide the controls that may be required or desired by you; and (iii) routine archiving and backing up of Customer Content. You agree to notify Splunk promptly if you believe that an unauthorized third party may be using your accounts or if your account information is lost or stolen.
- D. **\*\*Refund Upon Termination for Splunk's Breach.\*\*** If a Hosted Service is terminated by you for Splunk's uncured material breach in accordance with these General Terms, Splunk will refund you any prepaid subscription fees covering the remainder of the Term after the effective date of termination.
- E. **\*\*Return of Customer Content.\*\*** Customer Content may be retrieved by you and removed from the Hosted Services in accordance with the applicable Documentation. We will make the Customer Content available on the Hosted Services for thirty (30) days after termination of a subscription for your retrieval. After that thirty (30) day period, we will have no obligation to maintain the storage of your Customer Content, and you hereby authorize us thereafter to, and we will, unless legally prohibited, delete all remaining Customer Content. If you require assistance in connection with migration of your Customer Content, depending on the nature of the request, we may require a mutually agreed upon fee for assistance.
- F. **\*\*Specific Offering Terms.\*\*** Specific security controls and certifications, data policies, service descriptions, Service Level Schedules and other terms specific to a Hosted Service and other Offerings ("Specific Offering Terms") are set forth here: [www.splunk.com/SpecificTerms](http://www.splunk.com/SpecificTerms)([www.splunk.com/SpecificTerms](http://www.splunk.com/SpecificTerms)), and will apply, and be deemed incorporated herein by reference.

#### #### **\*\*5. Support and Maintenance\*\***

The specific Support Program included with a Purchased Offering will be identified in the applicable Order. Splunk will provide the purchased level of support and maintenance services in accordance with the terms of the Support Exhibit attached to these General Terms.

#### #### **\*\*6. Configuration and Implementation Services\*\***

Splunk offers standard services to implement and configure your Purchased Offerings. These services are purchased under an Order and are subject to the payment of the Fees therein and the terms of the Configuration and Implementation Services Exhibit attached to these General Terms.

#### #### **\*\*7. Data Protection for Personal Data\*\***

Splunk will follow globally recognized data protection principles and industry-leading standards for the security of personal data. Splunk will comply with the requirements and obligations set forth in Splunk's Data Processing Addendum ("DPA"), located at [https://www.splunk.com/en\\_us/legal/splunk-dpa.html](https://www.splunk.com/en_us/legal/splunk-dpa.html), which includes standard terms for the processing of personal data (including, as applicable, personal data in a Hosted Service).

#### #### 8. Security

A. **Security for Hosted Services: Standard Environment.** Splunk will implement industry leading security safeguards for the protection of Customer Confidential Information, including Customer Content transferred to and stored within the Hosted Services. These safeguards include commercially reasonable administrative, technical, and organizational measures to protect Customer Content against destruction, loss, alteration, unauthorized disclosure, or unauthorized access, including such things as information security policies and procedures, security awareness training, threat and vulnerability management, incident response and breach notification, and vendor risk management. Splunk's technical safeguards are further described in the Splunk Cloud Platform Security Addendum ("SC-SA"), located at [https://www.splunk.com/en\\_us/legal/splunk-cloud-security-addendum.html](https://www.splunk.com/en_us/legal/splunk-cloud-security-addendum.html), and the Observability Suite Security Addendum ("OS-SA"), located at [https://www.splunk.com/en\\_us/legal/splunk-observability-security-addendum.html](https://www.splunk.com/en_us/legal/splunk-observability-security-addendum.html), as applicable, and are incorporated herein by reference. Splunk may update the SC-SA and OS-SA from time to time provided, that updates will be subject to Section 24 below.

B. **Security for Hosted Services: Premium HIPAA Environment.** For Hosted Services Offerings provisioned in Splunk Cloud Platforms Premium HIPAA environment (as specified in an Order), in addition to the protections under the SC-SA and these General Terms, Splunk will comply with the requirements and obligations set forth in Splunk Business Associate Agreement found here: [https://www.splunk.com/en\\_us/legal/splunk-baa.html](https://www.splunk.com/en_us/legal/splunk-baa.html).

C. **Additional Security for Other Hosted Services.** From time to time, Splunk may offer custom security safeguards for unique Hosted Services offerings. Any such security safeguards will be as set forth in the applicable Documentation and Specific Offering Terms.

D. **Security for On Premises Offerings.** Splunk will implement industry leading security safeguards for the protection of Splunk's IT systems, products, facilities and assets, and any Customer Confidential Information accessed or processed therein, e.g., customer account information, support tickets ("Corporate Security Controls"). Splunk's Corporate Security Controls include such things as information security policies and procedures, security awareness training, physical and environmental access controls, threat and vulnerability management, incident response and breach notification, and vendor risk management. Splunk's Corporate Security Controls are further described in Splunk's Information Security Addendum ("ISA"), located at [https://www.splunk.com/en\\_us/legal/information-security-addendum.html](https://www.splunk.com/en_us/legal/information-security-addendum.html) and are incorporated herein by reference.

E. **Product Development Security.** Splunk will follow secure software development practices and applies an industry standard, risk-based approach to its software development lifecycle ("SDLC"), which includes, as applicable, such things as performing security architecture reviews, open source security scans, virus detection, dynamic application security testing, network vulnerability scans and external penetration testing in the development environment. Product-specific information about the SDLC in our Offerings is detailed more fully in the ISA. Splunk's Product Security Portal, located at [https://www.splunk.com/en\\_us/product-security.html](https://www.splunk.com/en_us/product-security.html), contains

detailed information about Splunk's program for managing and communicating product vulnerabilities. Splunk categorizes product vulnerabilities in accordance with the Common Vulnerability Scoring System ("Medium," "High," or "Critical") and uses commercially reasonable efforts to remediate vulnerabilities depending on their severity level in accordance with industry standards.

F. **Maintaining Protections.** Notwithstanding anything to contrary in these General Terms, or any policy or terms referenced herein via hyperlink (or any update thereto), Splunk may not, during a Term materially diminish the security protections set forth in these General Terms, any Specific Offering Terms, or the applicable security addendum.

#### \*\*\*\* **9. Use Restrictions** \*\*\*\*

Except as expressly permitted in an Order, these General Terms or our Documentation, you agree not to (nor allow any user or Third Party Provider to): (a) reverse engineer (except to the extent specifically permitted by statutory law), decompile, disassemble or otherwise attempt to discover source code or underlying structures, ideas or algorithms of any Offering; (b) modify, translate or create derivative works based on the Offerings; (c) use an Offering to ingest, monitor or analyze the machine, IT system or application data of any third party; (d) resell, transfer or distribute any Offering; (e) access or use any Offering in order to monitor its availability, performance, or functionality for competitive purposes; (f) attempt to disable or circumvent any license key or other technological mechanisms or measures intended to prevent, limit or control use or copying of, or access to, Offerings; (g) separately use any of the applicable features and functionalities of the Offerings with external applications or code not furnished by Splunk or any data not processed by the Offering; (h) exceed the Capacity purchased or (i) use any Offering in violation of all applicable laws and regulations (including but not limited to any applicable privacy and intellectual property laws).

#### \*\*\*\* **10. Our Ethics, Compliance and Corporate Responsibility** \*\*\*\*

A. **Ethics and Corporate Responsibility.** Splunk is committed to acting ethically and in compliance with applicable law, and we have policies and guidelines in place to provide awareness of, and compliance with, the laws and regulations that apply to our business globally. We are committed to ethical business conduct, and we use diligent efforts to perform in accordance with the highest global ethical principles, as described in the Splunk Code of Conduct and Ethics found [here](https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?_ga=2.27382325.82146825.1675981089-269939538.1673288458&_gac=1.127441023.1674005341.Cj0KCQiAq5meBhCyARIsAJrtDr75-RptXmmxNnKzoOJ_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw_wcB&gl=1*1xgvjcs*_ga*MjY5OTM5NTM4LjE2NzMyODg0NTg.*_ga_5EPM2P39FV*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w)([https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?\\_ga=2.27382325.82146825.1675981089-269939538.1673288458&\\_gac=1.127441023.1674005341.Cj0KCQiAq5meBhCyARIsAJrtDr75-RptXmmxNnKzoOJ\\_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw\\_wcB&gl=1\\*1xgvjcs\\*\\_ga\\*MjY5OTM5NTM4LjE2NzMyODg0NTg.\\*\\_ga\\_5EPM2P39FV\\*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w](https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?_ga=2.27382325.82146825.1675981089-269939538.1673288458&_gac=1.127441023.1674005341.Cj0KCQiAq5meBhCyARIsAJrtDr75-RptXmmxNnKzoOJ_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw_wcB&gl=1*1xgvjcs*_ga*MjY5OTM5NTM4LjE2NzMyODg0NTg.*_ga_5EPM2P39FV*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w)).

B. **Anti-Corruption.** We implement and maintain programs for compliance with applicable anti-corruption and anti-bribery laws. Splunk policy prohibits the offering or soliciting of any illegal or improper bribe, kickback, payment, gift, or thing of value to or from any of your employees or agents in connection with these General Terms. If we learn of any violation of the above, we will use reasonable efforts to promptly notify you at the main contact address provided by you to Splunk.

C. **Export.** We certify that Splunk is not on any of the relevant U.S. or EU government lists of prohibited persons, including the Treasury Departments List of Specially Designated Nationals and the Commerce Departments List of Denied Persons or Entity List. Export information regarding our Offerings, including our export



control classifications for our Offerings, is found here: [https://www.splunk.com/en\\_us/legal/export-controls.html](https://www.splunk.com/en_us/legal/export-controls.html).

#### #### \*\*11. Usage Data\*\*

From time to time, Splunk may collect Usage Data generated as a by-product of your use of Offerings. Usage Data does not include Customer Content. We collect Usage Data for a variety of reasons, such as to identify, understand, and anticipate performance issues and the factors that affect them, to provide updates and personalized experiences to customers, and to improve the Splunk Offerings. Details on Splunk's Usage Data collection practices are set forth in Splunk's Privacy Policy found here: [https://www.splunk.com/en\\_us/legal/privacy/privacy-policy.html](https://www.splunk.com/en_us/legal/privacy/privacy-policy.html).

#### #### \*\*12. Capacity and Usage Verification\*\*

A. **Certification and Verification.** At Splunk's request, you will furnish Splunk a certification signed by your authorized representative verifying that your use of the Purchased Offering is in accordance with these General Terms and the applicable Order. For On-Premises Products, we may also ask you from time to time, but not more frequently than once per calendar period, to cooperate with us to verify usage and adherence to purchased Capacities. If Splunk requests a verification process, you agree to provide Splunk reasonable access to the On-Premises Product installed at your facility (or as hosted by your Third-Party Provider). If Splunk does any verification, it will be performed with as little interference as possible to your use of the On-Premises Product and your business operations. Splunk will comply with your (or your Third-Party Providers) reasonable security procedures.

B. **Overages.** If a verification or usage report reveals that you have exceeded the purchased Capacity or usage rights for your Purchased Offering (e.g., used as a service bureau) during the period reviewed, then we will have the right to invoice you using the applicable Fees at list price then in effect, which will be payable in accordance with these General Terms. Without limiting Splunk's foregoing rights, with respect to Hosted Services, Splunk may work with you to reduce usage so that it conforms to the applicable usage limit, and we will in good faith discuss options to right size your subscription as appropriate. Notwithstanding anything to the contrary herein, Splunk will have the right to directly invoice you for overages, regardless of whether you purchased the Purchased Offering from an authorized reseller or Digital Marketplace. See the Specific Offering Terms for any additional information related to overages for a Hosted Service.

#### #### \*\*13. Our Use of Open Source\*\*

Certain Offerings may contain Open Source Software. Splunk makes available in the applicable Documentation a list of Open Source Software incorporated in our On-Premises Products as required by the respective Open Source Software licenses. Any Open Source Software that is delivered as part of your Offering and which may not be removed or used separately from the Offering is covered by the warranty, support and indemnification provisions applicable to the Offering. Some of the Open Source Software may have additional terms that apply to the use of the Offering (e.g., the obligation for us to provide attribution of the specific licensor), and those terms will be included in the Documentation; however, these terms will not (a) impose any additional restrictions on your use of the Offering, or (b) negate or amend any of our responsibilities with respect to the Offering.

#### #### \*\*14. Splunk Developer Tools and Customer Extensions\*\*

Splunk makes Splunk Developer Tools available to you so you can develop Extensions for use with your Purchased

Offerings (Extensions that you develop, &quot;\*\*Customer Extensions\*\*&quot;).

You have a nonexclusive, worldwide, nontransferable, nonsublicensable right, subject to the terms of these General Terms, to use Splunk Developer Tools to develop your Customer Extensions, including to support interoperability between the Offering and your system or environment. Splunk proprietary legends or notices contained in the Splunk Developer Tools may not be removed or altered when used in or with your Customer Extension. You retain title to your Customer Extensions, subject to Splunk's ownership in our Offerings and any materials and technology provided by Splunk in connection with the Splunk Developer Tools. You agree to assume full responsibility for the performance and distribution of Customer Extensions.

#### #### \*\*15. Third Party Products, Third-Party Extensions, Third-Party Content and Unsupported Splunk Extensions\*\*

A. **Third-Party Extensions on Splunkbase.** Splunk makes Extensions developed and/or made available by a third-party on Splunkbase (&quot;\*\*Third-Party Extension\*\*&quot;) available for download or access as a convenience to its customers. Splunk makes no promises or guarantees related to any Third-Party Extension, including the accuracy, integrity, quality, or security of the Third-Party Extension. Nothing in these General Terms or on Splunkbase will be deemed to be a representation or warranty by Splunk with respect to any Third-Party Extension, even if a particular Third-Party Extension is identified as &quot;certified&quot; or &quot;validated&quot; for use with an Offering. We may, in our reasonable discretion, block or disable access to any Third-Party Extension at any time. Your use of a Third-Party Extension is at your own risk and may be subject to any additional terms, conditions, and policies applicable to that Third-Party Extension (such as license terms, terms of service, or privacy policies of the providers of such Third-Party Extension). Third-Party Extensions may be installed on Hosted Services pursuant to our instructions.

B. **Third Party Content.** Hosted Services may contain features or functions that enable interoperation with Third-Party Content that you, in your sole discretion, choose to add to a Hosted Service. You may be required to obtain access separately to such Third-Party Content from the respective providers, and you may be required to grant Splunk access to your accounts with such providers to the extent necessary for Splunk to allow the interoperation with the Hosted Service. By requesting or allowing Splunk to enable access to such Third-Party Content in connection with the Hosted Services, you certify that you are authorized under the providers terms to allow such access. If you install or enable (or direct or otherwise authorize Splunk to install or enable) Third-Party Content for use with a Hosted Service where the interoperation includes access by the third-party provider to your Customer Content, you hereby authorize Splunk to allow the provider of such Third-Party Content to access Customer Content as necessary for the interoperation. You agree that Splunk is not responsible or liable for disclosure, modification or deletion of Customer Content resulting from access to Customer Content by such Third-Party Content, nor is Splunk liable for any damages or downtime that you may incur or any impact on your experience of the Hosted Service, directly or indirectly, as a result of your use of and/or reliance upon, any Third-Party Content, sites or resources.

C. **Splunk As a Reseller.** When you purchase third party products (&quot;\*\*Third Party Products\*\*&quot;) from Splunk as specified in an Order (which products shall include third party software, but not any support which Splunk itself has contracted to provide), the following provision applies. Splunk acts solely as a reseller of Third Party Products, which are fulfilled by the relevant third party vendor (&quot;\*\*Third Party Vendor\*\*&quot;), and the purchase and use of Third Party Products is subject solely to the terms, conditions and policies made available by such Third Party Vendor. Consequently, Splunk makes no representation or warranty of any kind regarding the Third Party Products, whether express, implied, statutory or otherwise, and specifically disclaims all implied terms,

conditions and warranties (including as to quality, performance, availability, fitness for a particular purpose or non-infringement) to the maximum extent permitted by applicable law. You will bring any claim in relation to Third Party Products against the applicable Third Party Vendor directly. In no event will Splunk be liable to you for any claim, loss or damage arising out of the use, operation or availability of Third Party Product (whether such liability arises in contract, negligence, tort, or otherwise).

D. **\*\*Unsupported Splunk Extensions.\*\*** The Service Level Schedule commitments for any applicable Hosted Services will not apply to Splunk Extensions labeled on Splunkbase as &quot;**\*\*Not Supported.\*\***&quot;. You agree that Splunk is not responsible for any impact on your experience of a Hosted Service, as a result of your installation and/or use of any &quot;**\*\*Not Supported\*\***&quot; Splunk Extensions, and that your sole remedy will be to remove the &quot;**\*\*Not Supported\*\***&quot; Splunk Extension from the applicable Hosted Service. Further, some Splunk Extensions may not be compatible or certified for use with that Hosted Service (e.g., only specific Splunk Extensions are validated for our FedRAMP authorized environment for Splunk Cloud Platform). Please refer to the applicable Documentation for more information related to the Splunk Extensions compatible with your specific Purchased Offering.

#### **\*\*16.**

Your Compliance**\*\***

A. **\*\*Lawful Use of Offerings.\*\*** When you access and use an Offering, you are responsible for complying with all laws, rules, and regulations applicable to your access and use. This includes being responsible for your Customer Content and users, for your users compliance with these General Terms, and the accuracy, lawful use of, and the means by which you acquired your Customer Content. You may not transmit and/or store PHI Data, PCI Data or ITAR Data within a Hosted Services unless you have specifically purchased a Purchased Offering for that applicable regulated Hosted Services environment (as identified in an Order).

B. **\*\*Registration.\*\*** You agree to provide accurate and complete information when you register for and use any Offering and agree to keep this information current. Each person who uses any Offering must have a separate username and password. For Hosted Services, you must provide a valid email address for each person authorized to use your Hosted Services, and you may only have one person per username and password. Splunk may reasonably require additional information in connection with certain Offerings (e.g., technical information necessary for your connection to a Hosted Service), and you will provide this information as reasonably requested by Splunk. You are responsible for securing, protecting, and maintaining the confidentiality of your account usernames, passwords and access tokens.

C. **\*\*Export Compliance.\*\*** You will comply with all applicable export laws and regulations of the United States and any other country (&quot;Export Laws&quot;) where your users use any of the Offerings. You certify that you are not on any of the relevant U.S. government lists of prohibited persons, including the Treasury Departments List of Specially Designated Nationals and the Commerce Departments List of Denied Persons or Entity List. You will not export, re-export, ship, transfer or otherwise use the Offerings in any country subject to an embargo or other sanction by the United States, including, without limitation, Iran, Syria, Cuba, the Crimea Region of Ukraine, Sudan and North Korea, and you will not use any Offering for any purpose prohibited by the Export Laws.

D. **\*\*GovCloud Services.\*\*** If you access or use any Hosted Services in the specially isolated Amazon Web Services (&quot;**\*\*AWS\*\***&quot;) GovCloud (US) region (including without limitation any Hosted Services that are provisioned in a FedRAMP authorized environment within the AWS GovCloud (US) region)), you hereby represent and warrant that: (i) you are a &quot;US Person&quot; as defined under ITAR (see 22 CFR part 120.62); (ii) you have and will maintain a valid Directorate of Defense Trade Controls registration, if required by ITAR; (iii)

you and your end users are not subject to export control restrictions under US export control laws and regulations (i.e., users are not denied or debarred parties or otherwise subject to sanctions); (iv) you will maintain an effective compliance program to ensure compliance with applicable US export control laws and regulations, including ITAR, as applicable; and (v) you will maintain effective access controls as described in the Specific Offering Terms for the applicable Hosted Services. You are responsible for verifying that any user accessing Customer Content in the Hosted Services in the AWS GovCloud (US) region is eligible to access such Customer Content. The Hosted Services in the AWS GovCloud (US) region may not be used to process or store classified data. You will be responsible for all sanitization costs incurred by Splunk if users introduce classified data into the Hosted Services in the AWS GovCloud (US) region. You may be required to execute additional addendums to this agreement prior to provisioning of selected Hosted Services.

E. **\*\*Acceptable Use.\*\*** Without limiting any terms under these General Terms, you will also abide by our Hosted Services acceptable use policy: <https://www.splunk.com/view/SP-CAAAMB6>.

####

**\*\*17. Confidentiality\*\***

A. **\*\*Confidential Information.\*\*** Each party will protect the Confidential Information of the other. Accordingly, Receiving Party agrees to: (i) protect the Disclosing Partys Confidential Information using the same degree of care (but in no event less than reasonable care) that it uses to protect its own Confidential Information of a similar nature; (ii) limit use of Disclosing Partys Confidential Information for purposes consistent with these General Terms, and (iii) use commercially reasonable efforts to limit access to Disclosing Partys Confidential Information to its employees, contractors and agents or those of its Affiliates who have a bona fide need to access such Confidential Information for purposes consistent with these General Terms and who are subject to confidentiality obligations no less stringent than those herein.

B. **\*\*Compelled Disclosure of Confidential Information.\*\*** Notwithstanding the foregoing terms, the Receiving Party may disclose Confidential Information of the Disclosing Party if it is compelled by law enforcement agencies or regulators to do so, provided the Receiving Party gives the Disclosing Party prior notice of such compelled disclosure (to the extent legally permitted) and reasonable assistance, at the Disclosing Party's cost, if the Disclosing Party wishes to contest the disclosure. If the Receiving Party is compelled to disclose the Disclosing Partys Confidential Information as part of a civil proceeding to which the Disclosing Party is a Party, and the Disclosing Party is not contesting the disclosure, the Disclosing Party will reimburse the Receiving Party for its reasonable cost of compiling and providing secure access to such Confidential Information.

#### **\*\*18. Payment\*\***

The payment terms below only apply when you purchase Offerings directly from Splunk. When you purchase from an authorized reseller or Digital Marketplace, the payment terms are between you and the authorized reseller or Digital Marketplace. However, a breach of your payment obligations for an Offering with a Digital Marketplace will be deemed a breach of this Section 18.

A. **\*\*Fees.\*\*** You agree to pay all Fees specified in the Orders. Fees are non-cancelable and non-refundable, except as otherwise expressly set forth in these General Terms. Without limiting any of our other rights or remedies herein, overdue charges may accrue interest monthly at the rate of 1.5% of the then-outstanding unpaid balance, or the maximum rate permitted by law, whichever is lower. Fees are due and payable either within 30 days from the date of Splunks invoice or as otherwise stated in the Order.

B. **Credit Cards.** If you pay by credit, or debit card you: (i) will provide Splunk or its designated third-party payment processor with valid credit or debit card information; and (ii) hereby authorize Splunk or its designated third-party payment processor to charge such credit or debit card for all items listed in the applicable Order. Such charges must be paid in advance or in accordance with any different billing frequency stated in the applicable Order. You are responsible for providing complete and accurate billing and contact information and notifying Splunk in a timely manner of any changes to such information.

C. **Taxes.** All Fees quoted are exclusive of applicable taxes and duties, including any applicable sales and use tax. You are responsible for paying any taxes or similar government assessments (including, without limitation, value-added, sales, use or withholding taxes). We will be solely responsible for taxes assessable against us based on our net income, property, and employees.

#### #### **19. Splunk's Warranties**

A. **Relationship to Applicable Law.** We will not seek to limit our liability, or any of your warranties, rights and remedies, to the extent the limits are not permitted by applicable law (e.g., warranties, remedies or liabilities that cannot be excluded by applicable law).

B.

**General Corporate Warranty.** Splunk warrants that it has the legal power and authority to enter into these General Terms.

C. **Hosted Services Warranty.** Splunk warrants that during the applicable Term: (i) Splunk will not materially decrease the overall functionality of the Hosted Services; and (ii) the Hosted Services will perform materially in accordance with the applicable Documentation. Our sole and exclusive liability, and your sole and exclusive remedy for any breach of these warranties, will be your right to terminate the applicable Hosted Services Purchased Offering, and we will refund to you any prepaid but unused Fees for the remainder of the Term.

D. **On-Premises Product Warranty.** Splunk warrants that for a period of ninety (90) days from the Delivery of an On-Premises Product, the On-Premises Product will substantially perform the material functions described in the applicable Documentation for such On-Premises Product, when used in accordance with the applicable Documentation. Splunk's sole liability, and your sole remedy, for any failure of the On-Premises Product to conform to the foregoing warranty, is for Splunk to do one of the following (at Splunk's sole option and discretion) (i) modify, or provide an Enhancement for, the On-Premises Product so that it conforms to the foregoing warranty, (ii) replace your copy of the On-Premises Product with a copy that conforms to the foregoing warranty, or (iii) terminate the Purchased Offering with respect to the non-conforming On-Premises Product and refund the Fees paid by you for such non-conforming On-Premises Product.

E. **Disclaimer of Implied Warranties.** Except as expressly set forth above, the Offerings are provided "as is" with no warranties or representations whatsoever express or implied. Splunk and its suppliers and licensors disclaim all warranties and representations, including any implied warranties of merchantability, satisfactory quality, fitness for a particular purpose, noninfringement, or quiet enjoyment, and any warranties arising out of course of dealing or trade usage. Splunk does not warrant that use of Offerings will be uninterrupted, error free or secure, or that all defects will be corrected.

#### #### **20. Ownership**

A. **\*\*Offerings.\*\*** As between you and Splunk, Splunk owns and reserves all right, title, and interest in and to the Offerings, developer tools and other Splunk materials, including all intellectual property rights therein. We retain rights in anything delivered or developed by us or on our behalf under these General Terms. No rights are granted to you other than as expressly set forth in these General Terms.

B. **\*\*Customer Content.\*\*** You own and reserve all right, title and interest in your Customer Content. By sending Customer Content to a Hosted Service, you grant us a worldwide, royalty free, non-exclusive license to access and use the Customer Content for purposes of providing you the Hosted Service.

C. **\*\*Feedback.\*\*** You have no obligation to provide us with ideas for improvement, suggestions, or other feedback (collectively, **\*\*Feedback\*\***) in connection with an Offering, unless otherwise expressly set forth in the applicable Order. If, however, you provide any Feedback, you hereby grant to Splunk a non-exclusive, transferable, irrevocable, worldwide, royalty-free license (with rights to sublicense) to make, use, sell, offer to sell, reproduce, modify, distribute, make available, publicly display and perform, disclose and otherwise commercially exploit the Feedback.

#### #### **\*\*21. Term and Termination\*\***

A. **\*\*Term and Renewal.\*\*** These General Terms will commence upon the Effective Date and will remain in effect until the expiration of all applicable Purchased Offerings, unless earlier terminated pursuant to this Section. Termination of a specific Purchased Offering will not affect the Term of any other Purchased Offering. Termination of these General Terms will have the effect of terminating all Purchased Offerings. Grounds for terminating a Purchased Offering (e.g., for non-payment), that are specific to the Purchased Offering, will not be grounds to terminate Purchased Offerings where no breach exists. Unless indicated otherwise in an Order, the Term of a Purchased Offering (and these General Terms) will automatically renew for an additional period of time equal to the length of the preceding Term, unless one party notifies the other of its intent not to renew at least one (1) day in advance of the expiration of the Term or then-current renewal period.

B. **\*\*Termination.\*\*** Either party may terminate these General Terms, or any Purchased Offering, by written notice to the other party in the event of a material breach of these General Terms, or the specific terms associated with that Purchased Offering, that is not cured within thirty (30) days of receipt of the notice. Upon any expiration or termination of a Purchased Offering, the rights and licenses granted to you for that Purchased Offering will automatically terminate, and you agree to immediately (i) cease using and accessing the Offering, (ii) return or destroy all copies of any On-Premises Products and other Splunk materials and Splunk Confidential Information in your possession or control, and (iii) upon our request, certify in writing the completion of such return or destruction. Upon termination of these General Terms or any Purchased Offering, Splunk will have no obligation to refund any Fees or other amounts received from you during the Term. Notwithstanding any early termination above, except for your termination for our uncured material breach, you will still be required to pay all Fees payable under an Order.

C. **\*\*Survival.\*\*** The termination or expiration of these General Terms will not affect any provisions herein which by their nature survive termination or expiration, including the provisions that deal with the following subject matters: definitions, ownership of intellectual property, confidentiality, payment obligations, effect of termination, limitation of liability, privacy, and the **\*\*Miscellaneous\*\*** section in these General Terms.

D. **\*\*Suspension of Service.\*\*** In the event of a material breach or threatened material breach of this Agreement, Splunk may, without limiting its other rights and remedies, suspend your use of the Hosted Service until such breach is cured or Splunk reasonably believes there is no longer a threat, provided that, we will give you at least five (5) days prior notice before suspension. Suspension of a Hosted Service will have no impact on the duration of the Term of the Purchased Offering, or the associated Fees owed.

#### #### **\*\*22. Limitation of Liability\*\***

**\*\*In no event will the aggregate liability of either party, together with any of its Affiliates, arising out of or related to any Purchased Offering exceed the total amount paid by you for that Purchased Offering in the twelve (12) months preceding the first incident out of which the liability arose. However, the foregoing limitation will not limit your obligations under the**  
“Payment” section above and will not be deemed to limit your rights to any service level credits under any applicable Service Level Schedule. Furthermore, the cap above will not be deemed to limit Splunk’s right to recover amounts for your use of an Offering in excess of the Capacity purchased or use outside of Internal Business Purposes.**\*\***

**\*\*In no event will either party or its Affiliates have any liability arising out of or related to these General Terms for any lost profits, revenues, goodwill, or indirect, special, incidental, consequential, cover, business interruption or punitive damages.\*\***

**\*\*The foregoing limitations will apply whether the action is in contract or tort and regardless of the theory of liability, even if a party or its Affiliates have been advised of the possibility of such damages or if a party or its Affiliates remedy otherwise fails of its essential purpose.\*\***

**\*\*The limitation of liability herein will not apply to a party’s infringement of the other party’s intellectual property rights, indemnification obligations, or the fraud, gross negligence or willful misconduct of a party.\*\***

**\*\*The foregoing disclaimers of damages will also not apply to the extent prohibited by law. Some jurisdictions do not allow the exclusion or limitation of certain damages. To the extent such a law applies to you, some or all of the exclusions or limitations set forth above may not apply to you, and you may have additional rights.\*\***

#### #### **\*\*23. Indemnity\*\***

A. **\*\*Our Indemnification to You.\*\*** Splunk will defend and indemnify you, and pay all damages (including attorneys fees and costs) awarded against you, or that are agreed to in a settlement, to the extent a claim, demand, suit or proceeding is made or brought against you or your Affiliates by a third party (including those brought by a government entity) alleging that a Purchased Offering infringes or misappropriates such third party’s patent, copyright, trademark or trade secret (a “**\*\*Customer Claim\*\***”). Splunk will have no obligation under the foregoing provision to the extent a Customer Claim arises from your breach of these General Terms, your Customer Content, Third-Party Extension, or the combination of the Offering with: (i) Customer Content; (ii) Third-Party Extensions; (iii) any software other than software provided by Splunk; or (iv) any hardware or equipment. However, Splunk will indemnify against combination claims to the extent (y) the combined software is necessary for the normal operation of the Purchased Offering (e.g., an operating system), or (z) the Purchased Offering provides substantially all the essential elements of the asserted infringement or misappropriation claim. Splunk may in its sole discretion and at no cost to you: (1) modify any Purchased Offering so that it no longer infringes or misappropriates a third party right, (2) obtain a license for

your continued use of the Purchased Offering, in accordance with these General Terms, or (3) terminate the Purchased Offering and refund to you any prepaid fees covering the unexpired Term.

B. **\*\*Your Indemnification to Us.\*\*** Unless expressly prohibited by applicable law, you will defend and indemnify us, and pay all damages (including attorneys fees and costs) awarded against Splunk, or that are agreed to in a settlement, to the extent a claim, demand, suit or proceeding is made or brought against Splunk or its Affiliates by a third party (including those brought by a government entity) that: (i) alleges that your Customer Content or Customer Extensions infringes or misappropriates such third partys patent, copyright, trademark or trade secret, or violates another right of a third party; or (ii) alleges that your Customer Content or your use of any Offering violates applicable law or regulation.

C. **\*\*Mutual Indemnity.\*\*** Each party will defend, indemnify and pay all damages (including attorneys fees and costs) awarded against the other party, or that are agreed to in a settlement to the extent that an action brought against the other party by a third party is based upon a claim for bodily injury (including death) to any person, or damage to tangible property resulting from the negligent acts or willful misconduct of the indemnifying party or its personnel hereunder, and will pay any reasonable, direct, out-of-pocket costs, damages and reasonable attorneys fees attributable to such claim that are awarded against the indemnified party (or are payable in settlement by the indemnified party).

D. **\*\*Process for Indemnification.\*\*** The indemnification obligations above are subject to the party seeking indemnification to: (i) provide the other party with prompt written notice of the specific claim; (ii) give the indemnifying party sole control of the defense and settlement of the claim (except that the indemnifying party may not settle any claim that requires any action or forbearance on the indemnified partys part without their prior consent, which will not unreasonably withhold or delay); and (iii) gives the indemnifying party all reasonable assistance, at such partys expense.

#### #### **\*\*24. Updates to Offerings\*\***

Our Offerings and policies may be updated over the course of our relationship. From time to time, Splunk may update or modify an Offering and our policies, provided that: (a) the change and modification applies to all customers generally, and are not targeted to any particular customer; (b) no such change or modification will impose additional fees on you during the applicable Term or additional restrictions on your use of the Offering, (c) no such change will override or supersede the allocation of risk between us under these General Terms, including without limitation the terms under Sections 22 (Limitation of Liability) and 23 (Indemnity); (d) no such change or modification will materially reduce the security protections or overall functionality of the applicable Offering; and (e) any such change or modification will apply only prospectively, and will not apply to any breach or dispute that arose between the parties prior to the effective date of the change or modification. In the event of any conflict between these General Terms and the policies incorporated herein by reference, these General Terms will control.

#### #### **\*\*25. Governing Law\*\***

These General Terms will be governed by and construed in accordance with the laws of the State of California, as if performed wholly within the state and without giving effect to the principles of conflict of law. Any legal action or proceeding arising under these General Terms will be brought exclusively in the federal or state courts located in the Northern District of California and the parties hereby consent to personal jurisdiction and venue therein. Splunk may seek injunctive or other relief in any state, federal, or national court of competent jurisdiction for any actual or alleged



infringement of intellectual property or other proprietary rights of Splunk, its Affiliates, or any third party.

Neither the Uniform Computer Information Transactions Act nor the United Nations Convention for the International Sale of Goods will apply to these General Terms.

#### \*\*26. Use of Customer Name\*\*

You agree that we may add your name to our customer list and identify you as a Splunk customer on Splunk's websites. Any further public use of your name in connection with Splunk marketing activities (e.g., press releases) will require your prior approval.

#### \*\*27. Miscellaneous\*\*

A. **Different Terms.** Splunk expressly rejects terms or conditions in any Customer purchase order or other similar document that are different from or additional to the terms and conditions set forth in these General Terms. Such different or additional terms and conditions will not become a part of the agreement between the parties notwithstanding any subsequent acknowledgement, invoice or license key that Splunk may issue.

B. **No Future Functionality.** You agree that your purchase of any Offering is not contingent on the delivery of any future functionality or features, or dependent on any oral or written statements made by Splunk regarding future functionality or features.

C. **Notices.** Except as otherwise specified in these General Terms, all notices related to these General Terms will be sent in writing to the addresses set forth in the applicable Order, or to such other address as may be specified by either party to the other party, and will be effective upon (i) personal delivery, (ii) the second business day after mailing, or (iii), except for notices of termination or an indemnifiable claim ("Legal Notices"), which shall clearly be identifiable as Legal Notices, the day of sending by email. Billing-related notices to Customer will be addressed to the relevant billing contact designated by Customer. All other notices to Customer will be addressed to the relevant system administrator designated by Customer.

D. **Assignment.** Neither party may assign, delegate, or transfer these General Terms, in whole or in part, by agreement, operation of law or otherwise without the prior written consent of the other party, however Splunk may assign these General Terms in whole or in part to an Affiliate or in connection with an internal reorganization or a merger, acquisition, or sale of all or substantially all of Splunk's assets to which these General Terms relates. Any attempt to assign these General Terms other than as permitted herein will be null and void. Subject to the foregoing, these General Terms will bind and inure to the benefit of the parties permitted successors and assigns.

E. **U.S. Government Use Terms.** Splunk provides Offerings for U.S. federal government end use solely in accordance with the following: Government technical data and rights related to Offerings include only those rights customarily provided to the public as defined in these General Terms. This customary commercial license is provided in accordance with FAR 12.211 (Technical Data) and FAR 12.212 (Computer Software) and, for Department of Defense transactions, DFARS 252.227-7015 (Technical Data/Commercial Items) and DFARS 227.7202-3 (Rights in Commercial Computer Software or Commercial Computer Software Documentation). If a government agency has a need for rights not conveyed under these terms, it must negotiate with Splunk to determine if there are acceptable terms for transferring such rights, and a mutually acceptable written addendum specifically conveying such rights must be included in any

applicable contract or agreement.

F. **\*\*Waiver; Severability.\*\*** The waiver by either party of a breach of or a default under these General Terms will not be effective unless in writing. The failure by either party to enforce any provisions of these General Terms will not constitute a waiver of any other right hereunder or of any subsequent enforcement of that or any other provisions. If a court of competent jurisdiction holds any provision of these General Terms invalid or unenforceable, the remaining provisions of these General Terms will remain in full force and effect, and the provision affected will be construed so as to be enforceable to the maximum extent permissible by law.

G. **\*\*Integration; Entire Agreement.\*\*** These General Terms along with any additional terms incorporated herein by reference, constitute the complete and exclusive understanding and agreement between the parties and supersedes any and all prior or contemporaneous agreements, communications and understandings, written or oral, relating to their subject matter. Except as otherwise expressly set forth herein, any waiver, modification, or amendment of any provision of these General Terms will be effective only if in writing and signed by duly authorized representatives of both parties.

H. **\*\*Force Majeure.\*\*** Neither party or its Affiliates, subsidiaries, officers, directors, employees, agents, partners and licensors will (except for the obligation to make any payments) be liable for any delay or failure to perform any obligation under these General Terms where the delay or failure results from any cause beyond their reasonable control, including, without limitation, acts of God, labor disputes or other industrial disturbances, electrical, telecommunications, or other utility failures, earthquake, storms or other elements of nature, blockades, embargoes, riots, acts or orders of government, acts of terrorism, or war.

I. **\*\*Independent Contractors; No Third-Party Beneficiaries.\*\*** The parties are independent contractors. These General Terms do not create a partnership, franchise, joint venture, agency, fiduciary, or employment relationship between the parties. There are no third-party beneficiaries of these General Terms. Neither party has the authority to bind or act on behalf of the other party in any capacity or circumstance whether by contract or otherwise.

#### **## \*\*General Terms Definitions Exhibit\*\***

&quot;**\*\*Affiliates\*\***&quot; means a corporation, partnership or other entity controlling, controlled by or under common control with such party, but only so long as such control continues to exist. For purposes of this definition, &quot;**control\*\***&quot; means ownership, directly or indirectly, of greater than fifty percent (50%) of the voting rights in such entity (or, in the case of a noncorporate entity, equivalent rights).

&quot;**\*\*Capacity\*\***&quot; means the measurement of usage of an Offering (e.g., aggregate daily volume of data indexed, specific source type rights, number of search and compute units, number of monitored accounts, virtual CPUs, user seats, use cases, storage capacity, etc.) that is purchased for an Offering, as set forth in the applicable Order. The Capacities for each of our Offerings can be found here: [https://www.splunk.com/en\\_us/legal/licensed-capacity.html](https://www.splunk.com/en_us/legal/licensed-capacity.html).

&quot;**\*\*CCPA\*\***&quot; means the California Consumer Privacy Act of 2018.

&quot;**\*\*Confidential Information\*\***&quot; means all nonpublic information disclosed by a party (&quot;**\*\*Disclosing Party\*\***&quot;) to the other party (&quot;**\*\*Receiving Party\*\***&quot;), whether orally or in writing, that is designated as &quot;**confidential**&quot; or that, given the nature of the information or circumstances

surrounding its disclosure, should reasonably be understood to be confidential. Notwithstanding the foregoing, **“Confidential Information”** does not include any information that: (i) is or becomes generally known to the public without breach of any obligation owed to the Disclosing Party, (ii) was known to the Receiving Party prior to its disclosure by the Disclosing Party without breach of any obligation owed to the Disclosing Party, (iii) is received from a third party without breach of any obligation owed to the Disclosing Party, or (iv) was independently developed by the Receiving Party.

**“Content Subscription”**

means the right of Customer to receive content applicable to an Offering (e.g., models, templates, searches, playbooks, rules and configurations, as described in the relevant Documentation) on a periodic basis over the applicable Term. Content Subscriptions are purchased as an add-on service and are identified in an Order.

**“Customer Content”** means any data that is ingested by or on behalf of you into an Offering from your internal data sources.

**“Delivery”** means the date of Splunk's initial delivery of the license key for the applicable Offering or, for Hosted Services, the date Splunk makes the applicable Offering available to you for access and use.

**“Digital Marketplace”** means an online or electronic marketplace operated or controlled by a third party where Splunk has authorized the marketing and distribution of its Offerings.

**“Documentation”** means the online user guides, documentation and help and training materials published

on Splunk's website (such as at <https://docs.splunk.com/Documentation>) or accessible through the applicable Offering, as may be updated by Splunk from time to time.

**“Enhancements”** means any updates, upgrades, releases, fixes, enhancements, or modifications to a Purchased Offering made generally commercially available by Splunk to its customers under the terms and conditions in the Support Exhibit.

**“Extension”** means any separately downloadable or accessible suite, configuration file, add-on, technical add-on, plug-in, example module, command, function, playbook, content or application that extends the features or functionality of the applicable Offering.

**“Fees”** means the fees that are applicable to an Offering, as identified in the Order.

**“GDPR”** means the General Data Protection Regulation (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data) as updated, amended or replaced from time to time.

**“HIPAA”** means the Health Insurance Portability and Accountability Act of 1996, as amended, and supplemented by the Health Information Technology for Economic and Clinical Health Act.

**“Hosted Service”** means a technology service hosted by or on behalf of Splunk and provided to you.

**“Internal Business Purpose”** means your use of an Offering for your own internal business

operations, based on the analysis, monitoring or processing of your data from your systems, networks, and devices. Accordingly, Internal Business Purpose does not include monitoring or servicing the systems, networks and devices of third parties.

"\*\*ITAR Data\*\*" means information protected by the International Traffic in Arms Regulations.

"\*\*Nonprofit\*\*" means a U.S. Federal 501(c)(3), tax-exempt, nonprofit corporation or association (or other nonprofit entity organized in accordance with the laws of where your nonprofit entity is registered) that has qualified for a free, donated Offering in connection with a Splunk donation program.

"\*\*Offerings\*\*" means the products, services, and other offerings that Splunk makes generally available, including without limitation On-Premises Products, Hosted Services, Support Programs, Content Subscriptions and Configuration and Implementation Services.

"\*\*On-Premise Product\*\*" means the Splunk software that is delivered to you and deployed and operated by you or on your behalf on hardware designated by you, and any Enhancements made available to you by Splunk.

"\*\*Open Source Software\*\*" means software that is licensed under a license approved by the Open Source Initiative or similar freeware license, with terms requiring that such software code be (i) disclosed or distributed in source code or object code form, (ii) licensed for the purpose of making derivative works, and/or (iii) redistributed under the same license terms.

"\*\*Orders\*\*" means Splunk's quote or ordering document (including online order form) accepted by you via your purchase order or other ordering document submitted to Splunk (directly or indirectly through an authorized reseller or Digital Marketplace) to order Offerings, which references the Offering, Capacity, pricing and other applicable terms set forth in an applicable Splunk quote or ordering document. Orders do not include the terms of any preprinted terms on your purchase order or other terms on a purchase order that are additional or inconsistent with the terms of these General Terms.

"\*\*PCI Data\*\*" means credit card information within the scope of the Payment Card Industry Data Security Standard.

"\*\*PHI Data\*\*" means any protected health data, as defined under HIPAA.

"\*\*Purchased Offerings\*\*" means the services, subscriptions and licenses to Offerings that are acquired by you under Orders, whether directly or through an authorized reseller or Digital Marketplace.

"\*\*Service Level Schedule\*\*" means a Splunk policy that applies to the availability and uptime of a Hosted Service and which, if applicable, offers service credits as set forth therein.

"\*\*Splunkbase\*\*" means Splunk's online directory of or platform for Extensions, currently located at <https://splunkbase.splunk.com> and any and all successors, replacements, new versions, derivatives, updates and upgrades and any other similar platform(s) owned and/or controlled by Splunk.

"\*\*Splunk Developer Tool\*\*" means the standard application programming interface, configurations, software development kits, libraries, command line interface tools, other tooling (including scaffolding and data generation tools), integrated development environment plug-ins or extensions, code examples, tutorials, reference

guides and other related materials identified and provided

by Splunk to facilitate or enable the creation of Extensions or otherwise support interoperability between the software and your system or environment.

"\*\*Splunk Extensions\*\*" means Extensions made available through Splunkbase that are identified on Splunkbase as built by Splunk (and not by any third party).

"Support Programs" are the Support Programs offered by Splunk and identified here:

[https://www.splunk.com/en\\_us/customer-success/support-programs.html](https://www.splunk.com/en_us/customer-success/support-programs.html)

"\*\*Term\*\*" means the duration of your subscription or license to the applicable Offering that starts and ends on the date listed on the applicable Order. If no start date is specified in an Order, the start date will be the Delivery date of the Offering.

"\*\*Third Party Content\*\*" means information, data, technology, or materials made available to you by any third party that you license and add to a Hosted Service or direct Splunk to install in connection with a Hosted Service. Third-Party

Content includes but is not limited to, Third-Party Extensions, web-based or offline software applications, data service or content that are provided by third parties.

"\*\*Usage Data\*\*" means data generated from the usage, configuration, deployment, access, and performance of an Offering. For example, this may include such things as information about your operating environment, such as your network and systems architecture, or sessions, such as page loads and session views, duration, or interactions, errors, number of searches, source types and format (e.g., json, xml, csv), ingest volume, number of active and licensed users, or search concurrency. Usage Data does not include Customer Content.

## ## \*\*Support Exhibit to Splunk General Terms\*\*

This Support Exhibit forms a part of the Splunk General Terms and governs your purchase, and Splunk's provision of Support Services.

### 1. \*\*Support Programs\*\*

Support Programs purchased as part of a Purchased Offering will be identified in your applicable Order. Splunk will provide you the level of Support Services described under the purchased Support Program, subject to your payment of applicable Fees. "\*\*Support Programs\*\*" are the Support Programs offered by Splunk and identified here: [https://www.splunk.com/en\\_us/customer-success/support-programs.html](https://www.splunk.com/en_us/customer-success/support-programs.html).

### 2. \*\*Support Services\*\*

"\*\*Support Services\*\*" include technical support for your Purchased Offerings, and, when available, the provision of Enhancements for your Purchased Offerings, subject to the Support Policy described below. Technical support under a Support Program is available via web portal, and certain Support Programs also make support available via telephone. Support Services will be delivered by a member of Splunk's technical support team during the regional hours of operation applicable under the Support Program. Support Services are delivered in English unless you are in a location where we have made localized Support Services

available.

### 3. **Support Policy**

Our Support Policy, provided here: [https://www.splunk.com/en\\_us/legal/splunk-software-support-policy.html](https://www.splunk.com/en_us/legal/splunk-software-support-policy.html) (&quot;**Support Policy**&quot;) describes the duration of our Support Services for certain Splunk On-Premises Products and other policies associated with our Support Services.

As we release new versions for our Offerings, we discontinue Support Services for certain older versions. Our Support Policy sets forth the schedule for the duration of support, and end of support, for Offering versions. The current versions of our Offerings that are supported under our Support Policy and will be our &quot;Supported Versions&quot; herein. The Support Policy may not apply to Hosted Services, and the product and services version we make available as our Hosted Services will be deemed Supported Versions herein.

### 4. **Case Priority**

Each Support Program offers different support levels for your case priority levels. When submitting a case, you will select the priority for initial response by logging the case online, in accordance with the priority guidelines set forth under your Support Program. When the case is received, we may in good faith change the priority if the issue does not conform to the criteria for the selected priority. When that happens, we will provide you with notice (electronic or otherwise) of such change.

### 5. **Exclusions**

We will have no obligation to provide support for issues caused by any of the following (each, a &quot;**Customer Generated Error**&quot;): (i) modifications to an Offering not made by Splunk; (ii) use of an Offering other than as authorized in the General Terms or as provided in the applicable Documentation; (iii) damage to the machine on which an On-Premises Product is installed; (iv) use of a version of an Offering other than the Supported Version; (v) third-party products that are not expressly noted in the Documentation as supported by Splunk; or (vi) conflicts related to replacing or installing hardware, drivers, and software that are not expressly supported by Splunk and described in the applicable Documentation. If we determine that support requested by you is for an issue caused by a Customer Generated Error, we will notify you of that fact as soon as reasonably possible under the circumstances. If you agree that we should provide support for the Customer Generated Error via a confirming email, then we will have the right to invoice you at our then-current time and materials rates for any such support provided by us.

### 6. **Support for Splunk Extensions**

Only Splunk Extensions that are labeled as &quot;**Splunk Supported**&quot; on Splunkbase, or other Splunk-branded marketplace, are eligible for support, and this support is limited. For those labeled Splunk Supported, we will provide an initial response and acknowledgement in accordance with the P3 terms that are applicable in the applicable Support Program, and Enhancements may be made available.

No other terms of a Support Program will apply to a Splunk Application. For those labeled as &quot;**Not Supported**&quot;, Splunk will have no support obligations.

### 7. **Authorized Support Contacts**

You are entitled to have a certain number of Support Contacts under each Support Program. &quot;**Support**

Contacts" means the individual(s) specified by you that are authorized to submit support cases.

The number of Support Contacts will be based on the Capacity of the Offering purchased, and the applicable Support Program. The number of Support Contacts will be set forth in customers entitlement information on the Splunk support portal.

We only take support requests from, and communicate with, your Support Contacts in connection with support cases. We strongly recommend that your Support Contact(s) are trained on the applicable Offering. In order to designate Support Contacts, you must provide the individuals primary email address and Splunk.com login ID.

8.

**\*\*Defect Resolution\*\***

Should we determine that an Offering has a defect, we will, at our sole option, repair the defect in the version of the Offering that you are then currently using or instruct you to install a newer version of the Offering with that defect repaired. We reserve the right to provide you with a workaround in lieu of fixing a defect should we in our sole judgment determine that it is more effective to do so.

9. **\*\*Your Assistance\*\***

Should you report a purported defect or error in an Offering, we may require you to provide us with the following information: (a) a general description of your operating environment; (b) a list of all hardware components, operating systems and networks; (c) a reproducible test case; and (d) any log files, trace and systems files. Your failure to provide this information may prevent us from identifying and fixing that purported defect.

10. **\*\*Changes to Support Programs\*\***

You acknowledge that, subject to the Support Policy, and subject to any commitment we have during the Term, we have the right to discontinue the manufacture, development, sale or support of any Offering, at any time, in our sole discretion. We further reserve the right to alter Support Programs from time to time, using reasonable discretion, but in no event will such alterations, during the Term of any Order, result in diminished Support Services from the level of your applicable purchased Support Program.

**### \*\*Configuration and Implementation Services Exhibit to Splunk General Terms\*\***

This Configuration and Implementation Services Exhibit forms a part of the Splunk General Terms and governs your purchase, and Splunks provision of Configuration and Implementation Services.

**\*\*Capitalized terms below are defined in the General Terms, this Exhibit or in the Definition Exhibit attached to this Exhibit.\*\***

1. **\*\*Services and Statements of Work\*\***

We will perform the C&I Services for you that are set forth in the applicable Statements of Work. You will pay the Fees under each Statement of Work in accordance with these General Terms, or otherwise as we may expressly agree in the applicable Statement of Work.

In each Statement of Work, we will designate our primary point of contact for you for all matters relating to the applicable C&I Services (which we may change from time to time upon notice).

## 2. **Our Personnel**

A. **Qualifications.** The Personnel we assign to perform the C&I Services will be qualified, skilled, experienced and otherwise fit for the performance of the C&I Services. If you, in your reasonable judgement, determine that Personnel assigned to your project are unfit, we will in good faith discuss alternatives, and we will replace Personnel as reasonably necessary. You acknowledge that any replacement may cause delay in the performance of the C&I Services.

B. **Personnel Conduct.** Our Personnel are subject to our Splunk Code of Conduct and Ethics [here]([https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?\\_ga=2.200727335.82146825.1675981089-269939538.1673288458&\\_gac=1.188710106.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ\\_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw\\_wcB&gl=1\\*1m2mlyb\\*\\_ga\\*MjY5OTM5NTM4LjE2NzMyODg0NTg.\\*\\_ga\\_5EPM2P39FV\\*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w](https://investors.splunk.com/static-files/3c2a9a40-7f6e-4795-9358-b5565826b13d?_ga=2.200727335.82146825.1675981089-269939538.1673288458&_gac=1.188710106.1674005341.Cj0KCQiAq5meBhCyARIsAJrtdr75-RptXmmxNnKzoOJ_p26uX0MwT-GzxcrmWSotrQqWFlaOLtYVyhgaAuriEALw_wcB&gl=1*1m2mlyb*_ga*MjY5OTM5NTM4LjE2NzMyODg0NTg.*_ga_5EPM2P39FV*MTY3NjA1MTkwNi40OC4xLjE2NzYwNjAxMzMzMzYuMC4w)), which includes, without limitation, an obligation to comply with our policies on protecting customer information, prohibitions on illegal drugs and any impaired job performance, avoiding conflicts of interest, and acting ethically at all times. We also background check our employees, per the Section below.

C. **Use of Subcontractors.** We reserve the right to use subcontractors in performance of the C&I Services, provided: (a) any subcontractor we use meets the requirements herein and conditions of these General Terms and the Statement of Work; (b) we will be responsible for the subcontractors compliance with the terms herein and the Statement of Work; and (c) upon your request or inquiry, we will identify any subcontractor that we are using, or plan to use, for C&I Services, and will cooperate in good faith to provide you with all relevant information regarding such subcontractors.

D. **No Employee Benefits.** We acknowledge and agree that our Personnel are not eligible for or entitled to receive any compensation, benefits, or other incidents of employment that you make available to your employees. We are solely responsible for all employment related taxes, expenses, withholdings, and other similar statutory obligations arising out of the relationship between us and our Personnel and the performance of C&I Services by such Personnel.

## 3. **Our Background Checks, Security and Compliance Obligations**

A. **Compliance with Your Security Program.** While on your premises, our Personnel will comply with your security practices and procedures generally prescribed by you for onsite visitors and service providers. However, any requirement that is in addition to the compliance requirements set forth in this Schedule (e.g., background checks that are different from the background checks described herein) must be expressly set forth in a Statement of Work. We agree to discuss in good faith any condition or requirement you may have for our Personnel that are different from standard policies, however any additional requirement may delay C&I Services and must be vetted and implemented by mutual agreement of the parties and expressly set forth in a Statement of Work. Splunk does not guarantee that it will be able to meet any additional requested requirements.



B. **Our Security Practices.** We implement and follow an enterprise security program, with the policies, plans, and procedures set forth here [www.splunk.com/prof-serv-isa](www.splunk.com/prof-serv-isa). Our Personnel will be subject to the data protection and confidentiality obligations set forth in these General Terms with respect to any of your data that we may have access to in connection with the C&I Services.

C. **Background Checks.** For U.S.-based projects, we will not assign an employee to perform C&I Services under a Statement of Work unless we have run the following background check on the employee: Criminal Felony & Misdemeanor; SSN Validation; Federal Criminal; SSN Trace; Employment Report Three (3) Employers; Education Report One (1) Institution; Global Sanctions & Enforcement; Prohibited Parties; Widescreen Plus National Criminal Search.

D. **Permissions for Access.** In the event you require any Personnel to sign any waivers, releases, or other documents as a condition to gain access to your premises for performance of the C&I Services ("**Access Documents**"), you agree: (a) that Personnel who will be required to sign Access Documents will sign on behalf of Splunk; (b) that any additional or conflicting terms in Access Documents with these General Terms will have no effect; and (c) you will pursue any claims for breach of any terms in the Access Documents against Splunk and not the individual signing.

#### 4. **Your Materials**

We will have no rights in or to any Customer Materials, however you grant us the right to use Customer Materials in order to provide the C&I Services. Nothing in these General Terms will be deemed to transfer to us any ownership of Customer Materials.

#### 5. **C&I Services Materials and Customizations Unique to You**

A. **C&I Services Materials.** The C&I Services we perform (e.g., configuration of our Offerings), and the C&I Services Materials we offer, create, and deliver to you in connection with the C&I Services, are generally applicable to our business, and therefore we require the right to be able to re-use the C&I Services Materials we create for one customer in connection with all of our customers. For the avoidance of doubt, our use of the C&I Services Materials created for you in connection with C&I Services will comply with our ongoing obligations and restrictions with respect to your Customer Materials and your Confidential Information, and we will not identify you in any way in connection with our further use of such C&I Services Materials.

B. **Customer Owned Work Product.** However, in the unlikely event that the parties agree that C&I Services Materials for a project are custom work product unique to your business, and not applicable to other customers generally, we will transfer ownership to those agreed C&I Services Materials to you under the applicable Statement of Work. C&I Services Materials must be expressly identified as "**Customer Owned Work Product**" under a Statement of Work for ownership to pass to you. Subject to payment of applicable Fees under the Statement of Work, we hereby assign to you all rights, title and interest (including all Intellectual Property Rights therein) in and to all C&I Services Materials identified as Customer Owned Work Product (but excluding all Splunk Preexisting IP incorporated into the Customer Owned Work Product). At your request and expense, we will assist and cooperate with you in all reasonable respects and will execute documents and take such further acts reasonably requested by you to enable you to acquire, transfer, maintain, perfect, and enforce your ownership rights in such Customer Owned Work Product.

C. **\*\*Our Ownership.\*\*** Subject to your ownership rights in Customer Owned Work Product and Customer Materials, we will own all rights in and to all C&I Services Materials.

D. **\*\*License Rights.\*\*** For those C&I Services Materials that are not Customer Owned Work Product, you will have the right to access and use those C&I Services Materials in connection with your applicable Offerings, and those rights will be of the same scope and duration as your rights to the underlying Offering.

6. **\*\*C&I Services Warranty\*\***

We warrant that the C&I Services will be performed in a good and workmanlike manner consistent with applicable industry standards. This warranty will be in effect for a period of thirty (30) days from the completion of any C&I Services. As your sole and exclusive remedy and our entire liability for any breach of the foregoing warranty, we will, at our option and expense, promptly re-perform any C&I Services that fail to meet this warranty or refund to you the fees paid for the non-conforming C&I Services.

7. **\*\*Your Cooperation\*\***

You acknowledge that your timely provision of (and our access to) your facilities, equipment, assistance, cooperation, data, information and materials from your officers, agents, and employees (the **\*\*Cooperation\*\***) is essential to Splunks performance of the C&I Services. We will not be liable for any delay or deficiency in performing the C&I Services if you do not provide the necessary Cooperation. As part of the Cooperation, you will (1) designate a project manager or technical lead to liaise with us while we perform the C&I Services; (2) allocate and engage additional resources as may be required to assist us in performing the C&I Services; and (3) making available to us any data, information and any other materials reasonably required by us to perform the C&I Services, including any data, information or materials specifically identified in the Statement of Work.

8. **\*\*Insurance\*\***

Throughout any period of C&I Services we perform for you, we will maintain insurance policies in the types and amounts described below at our own expense:

- Commercial General Liability Insurance with a limit of not less than \$1,000,000 per occurrence and a general aggregate limit of not less than \$2,000,000.
- Business Auto Insurance with a limit of not less than \$1,000,000 combined single limit. Such Insurance will cover liability arising out of "hired and non-owned" automobiles.
- Workers Compensation Insurance as required by workers compensation, occupational disease and occupational health and safety laws, statutes, and regulations.
- Technology Errors & Omissions Insurance with a limit of not less than \$3,000,000 per occurrence and general aggregate.
- Umbrella/Excess Insurance with a limit of not less than \$3,000,000 per occurrence and general aggregate.

9. **\*\*Change Order Process\*\***

You may submit written requests to us to change the scope of C&I Services described in a Statement of Work (each such request, a "Change Order Request"). If we elect to consider a Change Order Request, then we will promptly notify you if we believe that the Change Order Request requires an adjustment to the fees or to the schedule for the performance of the C&I Services. In such event, the parties will negotiate in good faith a reasonable and equitable adjustment to the fees and/or schedule, as applicable. We will continue to perform C&I Services pursuant to the existing Statement of Work and will have no obligation to perform any Change Order Request unless and until the parties have agreed in writing to such an equitable adjustment.

#### 10. Expenses

Unless otherwise specified in the Statement of Work, we will not charge you for our expenses we incur in connection with a Statement of Work. Our daily C&I Services rates are inclusive of any expenses. In the event the parties agree that expenses are reimbursable under a Statement of Work, we will mutually agree on any travel policy and any required documentation for reimbursement.

#### 11. Prepaid C&I Services

Unless otherwise expressly stated in a Statement of Work, all prepaid C&I Services must be redeemed within twelve (12) months from the date of purchase/invoice. At the end of the twelve (12) month term, any remaining prepaid unused C&I Services will expire; no refunds will be provided for any remaining pre-paid unused C&I Services. Unless otherwise specifically stated in a Statement of Work, Education is invoiced and payable in advance.

#### Configuration and Implementation Services Definitions Exhibit

"C&I

Services" means the services outlined in the Statement of Work.

"C&I Services Materials" means the materials and other deliverables that are provided to you as part of the C&I Services, and any materials, technology, know-how and other innovations of any kind that we or our Personnel may create or reduce to practice in the course of performing the C&I Services, including without limitation all improvements or modifications to our proprietary technology, and all Intellectual Property Rights therein.

"Customer Materials" means the data, information, and materials you provide to us in connection with your use of the C&I Services.

"Fees" means the fees that are applicable to the C&I Services, as identified in the Statement of Work.

"Intellectual Property Rights" means all worldwide intellectual property rights, including copyrights and other rights in works of authorship; rights in trademarks, trade names, and other designations of source or origin; rights in trade secrets and confidential information; and patents and patent applications.

"Personnel" means any employee, consultant, contractor, or subcontractor of Splunk.

"\*\*Splunk Preexisting IP\*\*" means, with respect to any C&I Services Materials, all associated Splunk technology and all Intellectual Property Rights created or acquired: (a) prior to the date of the Statement of Work that includes such C&I Services Materials, or (b) after the date of such Statement of Work but independently of the C&I Services provided under such Statement of Work.

"\*\*Statement of Work\*\*" means the statements of work and/or any and all applicable Orders, that describe the specific services to be performed by Splunk, including any materials and deliverables to be delivered by Splunk.

## 1.238

**go.opentelemetry.io/contrib/instrumentation/  
go.mongodb.org/mongo-  
driver/mongo/otelmongo v0.29.0**

### 1.238.1 Available under license :

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# 1.239 io-grpc-grpc-core 1.75.0

## 1.239.1 Available under license :

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