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```
*/opt/cola/permits/1331473747_1653068512.6387424/0/micronaut-reactor-2-2-2-sources-
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```

```
*/opt/cola/permits/1331473747_1653068512.6387424/0/micronaut-reactor-2-2-2-sources-
jar/io/micronaut/reactor/convert/ReactorToRxJava2ConverterRegistrar.java
```

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```
* /opt/cola/permits/1331474062_1653068623.0626605/0/json-path-5-0-1-sources-
jar/io/restassured/internal/path/json/mapping/JsonPathJsonObjectDeserializer.groovy
* /opt/cola/permits/1331474062_1653068623.0626605/0/json-path-5-0-1-sources-
```

jar/io/restassured/path/json/mapper/factory/DefaultYassonObjectMapperFactory.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/mapper/factory/JsonbObjectMapperFactory.java  
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jar/io/restassured/internal/path/json/mapping/JsonPathJackson1ObjectDeserializer.groovy  
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jar/io/restassured/path/json/mapper/factory/GsonObjectMapperFactory.java  
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jar/io/restassured/internal/path/json/ConfigurableJsonSlurper.groovy  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/config/JsonPathConfig.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/internal/path/json/mapping/JsonPathJackson2ObjectDeserializer.groovy  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/JsonPath.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/internal/path/json/JSONAssertion.groovy  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/mapper/factory/JohnzonObjectMapperFactory.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/internal/path/json/mapping/JsonPathJohnzonObjectDeserializer.groovy  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/mapper/factory/DefaultJackson1ObjectMapperFactory.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/mapper/factory/DefaultJohnzonObjectMapperFactory.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/mapper/factory/Jackson2ObjectMapperFactory.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/internal/path/json/JsonPrettifier.groovy  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/mapper/factory/Jackson1ObjectMapperFactory.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/exception/JsonPathException.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/internal/path/json/mapping/JsonPathGsonObjectDeserializer.groovy  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/mapper/factory/DefaultGsonObjectMapperFactory.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/config/JsonParserType.java  
\* /opt/cola/permits/1331474062\_1653068623.0626605/0/json-path-5-0-1-sources-  
jar/io/restassured/path/json/mapping/JsonPathObjectDeserializer.java

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\* /opt/cola/permits/1331473806\_1653513344.4211438/0/kubernetes-model-storageclass-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-storageclass/pom.xml

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\* /opt/cola/permits/1331473806\_1653513344.4211438/0/kubernetes-model-storageclass-5-8-0-sources-jar/manifest.vm

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# 1.11 apache-httpmime 4.5.13

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jar/io/micronaut/test/extensions/junit5/annotation/MicronautTest.java  
* /opt/cola/permits/1331474237_1653506865.917328/0/micronaut-test-junit5-3-1-1-sources-  
jar/io/micronaut/test/extensions/junit5/MicronautJunit5Extension.java  
* /opt/cola/permits/1331474237_1653506865.917328/0/micronaut-test-junit5-3-1-1-sources-  
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jar/io/fabric8/kubernetes/client/informers/SharedInformerEventListener.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/V1APIGroupExtensionAdapter.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/StorageAPIGroupExtensionAdapter.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/dsl/CascadingEditReplacePatchDeletable.java
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jar/io/fabric8/kubernetes/client/dsl/KubernetesListMixedOperation.java
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jar/io/fabric8/kubernetes/client/V1DiscoveryAPIGroupClient.java
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jar/io/fabric8/kubernetes/client/V2beta2AutoscalingAPIGroupExtensionAdapter.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/dsl/Nameable.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/dsl/internal/KubernetesListOperationsImpl.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/ExtensionsAPIGroupClient.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/dsl/base/OperationSupport.java
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jar/io/fabric8/kubernetes/client/informers/ListenerWatcher.java
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jar/io/fabric8/kubernetes/client/AppsAPIGroupClient.java
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/apps/v1/RollingUpdater.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/informers/cache/Indexer.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Ttyable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/CreateOnlyResourceOperationsImpl.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/BatchAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Timeoutable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Copiable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/WatchListDeletable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/Utils/HttpClientUtils.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/ServiceToURLProvider.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1SchedulingAPIGroupExtensionAdapter.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-

jar/io/fabric8/kubernetes/client/dsl/ErrorChannelable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/FileSelector.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/base/HasMetadataOperation.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/ConfigMapLock.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/MetricAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/WritableOperation.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/AutoscalingAPIGroupExtensionAdapter.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/V1beta1FlowControlAPIGroupExtensionAdapter.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/utils/TokenRefreshInterceptor.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/RequestConfig.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/internal/DefaultOperationInfo.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/AppsAPIGroupExtensionAdapter.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/NamespacedInOutCreateable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-

jar/io/fabric8/kubernetes/client/dsl/TtyExecErrorable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/Triggerable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/AdmissionRegistrationAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/Utils/OptionalDependencyWrapper.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/V1AdmissionRegistrationAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/Utils/KubernetesVersionFactory.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/internal/apps/v1/DeploymentRollingUpdater.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/Outputable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/Listable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/Config.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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jar/io/fabric8/kubernetes/client/dsl/RecreateApplicable.java  
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jar/io/fabric8/kubernetes/client/dsl/RbacAPIGroupDSL.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/CertificatesAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/BytesLimitTerminateTimeTailPrettyLoggable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/internal/core/v1/ReplicationControllerOperationsImpl.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/Utils/CachedSingleThreadScheduler.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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jar/io/fabric8/kubernetes/client/dsl/MixedOperation.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/Listenable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/Evictable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/OperationInfo.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/internal/AbstractWatchManager.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/informers/SharedInformerFactory.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/V2beta1AutoscalingAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/informers/ResourceEventHandler.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/V1AuthorizationAPIGroupDSL.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/ExtensionAdapter.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/DiscoveryAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-

jar/io/fabric8/kubernetes/client/dsl/Execable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/DiscoveryAPIGroupExtensionAdapter.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/V1AutoscalingAPIGroupDSL.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/base/FilterNestedImpl.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/AuthorizationAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/extended/run/RunOperations.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/V1beta1FlowControlAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/Utils/ExponentialBackoffIntervalCalculator.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/namespace/VisitFromServerGetWatchDeleteRecreateWaitApplicable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/BaseClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/NamespacedKubernetesClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/V1PolicyAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/V1beta1EventingAPIGroupClient.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/TtyExecable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/Secretable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/namespace/ListVisitFromServerGetDeleteRecreateWaitApplicable.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/CertificatesAPIGroupExtensionAdapter.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/AdmissionRegistrationAPIGroupExtensionAdapter.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/ReplaceDeletable.java  
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jar/io/fabric8/kubernetes/client/dsl/internal/RollingOperationContext.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/informers/cache/Cache.java  
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jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/LeaseLock.java  
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jar/io/fabric8/kubernetes/client/dsl/DryRunnable.java  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-



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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/dsl/internal/NamespaceVisitFromServerGetWatchDeleteRecreateWaitApplicableList  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
jar/io/fabric8/kubernetes/client/Utils/ImpersonatorInterceptor.java  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-  
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Readable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/RecreateFromServerGettable.java

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- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/CopyOrReadable.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Inputable.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/ListVisitFromServerGetDeleteRecreateWaitApplicable.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1AdmissionRegistrationAPIGroupExtensionAdapter.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1beta1AuthorizationAPIGroupDSL.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1beta1SchedulingAPIGroupClient.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1AuthorizationAPIGroupClient.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/ResourceNotFoundException.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/TailPrettyLoggable.java
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- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/HasMetadataOperationsImpl.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/LeaderElectionRecord.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/FlowControlAPIGroupDSL.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/PodResource.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/utils/CreateOrReplaceHelper.java
- \* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/FilterWatchListMultiDeletable.java
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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/AutoAdaptableKubernetesClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/AuthorizationAPIGroupDSL.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/PolicyAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Loadable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/V1beta1BatchAPIGroupDSL.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/Utils/IOHelpers.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1beta1PolicyAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/KubernetesClientTimeoutException.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/RecreateCreateable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/informers/cache/SyncableStore.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/extended/leaderElection/resourceLock/Lock.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/EventingAPIGroupDSL.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/ParameterMixedOperation.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/GenericKubernetesResourceOperationsImpl.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/SchedulingAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1beta1AdmissionRegistrationAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/internal/SerializationUtils.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/GenericKubernetesClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1ApiextensionsAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/VisitFromServerWritable.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/informers/impl/DefaultSharedIndexInformer.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/BytesLimitable.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Createable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/CascadingDeletable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/PolicyAPIGroupDSL.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/ScalableResource.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/ExtensionsAPIGroupDSL.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/ConfigAware.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/Utils/DeleteAndCreateHelper.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1DiscoveryAPIGroupExtensionAdapter.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V2beta2AutoscalingAPIGroupDSL.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/informers/cache/ProcessorListener.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/extended/leaderelection/resourceLock/LockException.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Edittable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Typeable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1beta1AuthorizationAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/StorageAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/StatusReplaceable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/URLFromEnvVarsImpl.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/extensions/v1beta1/ReplicaSetRollingUpdater.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/CreateOrReplaceable.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/DiscoveryAPIGroupDSL.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/V1beta1NetworkAPIGroupExtensionAdapter.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/ApiextensionsAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/Utils/PodOperationUtil.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/WatcherWebSocketListener.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Gettable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/PortForwardable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Applicable.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/apps/v1/DeploymentOperationsImpl.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/informers/cache/Lister.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/Operation.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/FlowControlAPIGroupClient.java

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/dsl/internal/uploadable/PodUpload.java

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jar/io/fabric8/kubernetes/client/dsl/base/CreateOnlyResourceOperation.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/Handlers.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/dsl/V1APIGroupDSL.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/V1AutoscalingAPIGroupExtensionAdapter.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/dsl/Uploadable.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/PropagationPolicyConfigurable.java
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-
jar/io/fabric8/kubernetes/client/EventingAPIGroupClient.java
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```
io.fabric8.kubernetes.client.URLFromEnvVarsImpl
io.fabric8.kubernetes.client.URLFromIngressImpl
io.fabric8.kubernetes.client.URLFromNodePortImpl
io.fabric8.kubernetes.client.URLFromClusterIPImpl
```

Found in path(s):

```
* /opt/cola/permits/1331473759_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ServiceToURLProvider
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```

```
io.fabric8.kubernetes.client.AppsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1beta1AdmissionRegistrationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.ApiextensionsAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.AuthorizationAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta1AutoscalingAPIGroupExtensionAdapter
io.fabric8.kubernetes.client.V2beta2AutoscalingAPIGroupExtensionAdapter
```

io.fabric8.kubernetes.client.BatchAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1BatchAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1BatchAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.ExtensionsAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.EventingAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1EventingAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1EventingAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.FlowControlAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1FlowControlAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.MetricAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.NetworkAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.PolicyAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1PolicyAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1PolicyAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.RbacAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.SchedulingAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1SchedulingAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1SchedulingAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.StorageAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1APIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1ApiextensionsAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1ApiextensionsAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1AuthorizationAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1AuthorizationAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1NetworkAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1NetworkAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.DiscoveryAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1DiscoveryAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1DiscoveryAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.CertificatesAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1CertificatesAPIGroupExtensionAdapter  
io.fabric8.kubernetes.client.V1beta1CertificatesAPIGroupExtensionAdapter

Found in path(s):

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/META-INF/services/io.fabric8.kubernetes.client.ExtensionAdapter

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Found in path(s):

\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/lib/FileSystem.java  
\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/io/fabric8/kubernetes/client/lib/FilenameUtils.java

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\* /opt/cola/permits/1331473759\_1653517667.158968/0/kubernetes-client-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-client/pom.xml

## 1.14 friendly-id 1.1.0

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\* Base62 encoder/decoder.

\* <p>

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\* Source: <https://github.com/opencoinage/opencoinage/blob/master/src/java/org/opencoinage/util/Base62.java>

\*/

Found in path(s):

\* /opt/cola/permits/1331474232\_1653068556.4558809/0/friendly-id-1-1-0-sources-1-jar/com/devskiller/friendly\_id/Base62.java

# 1.15 testcontainers-core 1.16.2

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ibmcom/db2:11.5.0.0a

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neo4j:3.5.0-enterprise

a

b

mcr.microsoft.com/mssql/server:2017-CU12

## 1.16 ktor-bom 1.6.1

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# 1.17 antlr 2.7.7

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* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/ApisAutomaticFeatureMetadata.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/ApiClientConfiguration.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DefaultNamespaceResolver.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/ApiClientFactory.java
```

```
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DiscoveryFactory.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/graalvm/KubernetesClientFeature.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/ModelMapper.java
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DefaultPodNameResolver.java
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Found in path(s):

```
* /opt/cola/permits/1331474306_1653514752.2550623/0/micronaut-kubernetes-client-3-4-0-sources-
jar/io/micronaut/kubernetes/client/DiscoveryCache.java
```

## 1.24 kotlinx-coroutines-bom 1.5.1

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## 1.25 micronaut-servlet 3.2.2

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Found in path(s):

- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletCookies.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletResponseFactory.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/StreamFileEncoder.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletRequestBinder.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/StreamedServletMessage.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpHandler.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletBodyBinder.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletRequestAndBody.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/DefaultServletExchange.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletExchange.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/AbstractFileEncoder.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletResponseEncoder.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/FileEncoder.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpResponse.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletBinderRegistry.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/ServletHttpRequest.java
- \* /opt/cola/permits/1331473542\_1653512935.5710146/0/micronaut-servlet-core-3-2-2-sources-jar/io/micronaut/servlet/http/encoders/SystemFileEncoder.java

## 1.26 micronaut-groovy 3.1.0

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```

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jar/io/micronaut/context/env/groovy/SetPropertyTransformer.groovy
* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-
jar/io/micronaut/context/env/groovy/ConfigurationEvaluator.groovy
* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-
jar/io/micronaut/context/env/groovy/GroovyPropertySourceLoader.java
* /opt/cola/permits/1331474157_1653512453.5913334/0/micronaut-runtime-groovy-3-1-0-sources-
jar/io/micronaut/context/env/groovy/package-info.java

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## 1.27 okhttp 4.9.3

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## 1.28 okio 2.8.0

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\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/SegmentedByteString.kt  
\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/ForwardingTimeout.kt  
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\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/RealBufferedSource.kt  
\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/RealBufferedSink.kt  
\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/SegmentedByteString.kt  
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\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Timeout.kt

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/BufferedSource.kt

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Sink.kt

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Buffer.kt

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/RealBufferedSink.kt

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/BufferedSink.kt

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Source.kt

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-

jar/commonMain/okio/RealBufferedSource.kt

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Okio.kt

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- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/InflaterSource.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/ForwardingSource.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/BufferedSink.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/JvmOkio.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Segment.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/BufferedSource.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/GzipSource.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/DeflaterSink.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/GzipSink.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Buffer.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Source.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Sink.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Timeout.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/RealBufferedSource.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/SegmentPool.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/RealBufferedSink.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/AsyncTimeout.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/ForwardingSink.kt

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Found in path(s):

- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/-Util.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/ByteString.kt
- \* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/-Platform.kt

\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-Platform.kt  
\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/internal/-Utf8.kt  
\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/ByteString.kt  
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\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedUpgrade.kt  
\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedUtf8.kt  
\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/PeekSource.kt  
\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/-DeprecatedOkio.kt  
\* /opt/cola/permits/1274700344\_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Throttler.kt

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* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/-Base64.kt
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```
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/HashingSink.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/Pipe.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/jvmMain/okio/HashingSource.kt
* /opt/cola/permits/1274700344_1645235023.94/0/okio-2-8-0-sources-jar/commonMain/okio/Options.kt
```



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## 1.30 hdrhistogram 2.1.12

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Manifest-Version: 1.0

Bnd-LastModified: 1575980548657

Build-Jdk: 1.8.0\_232

Built-By: gil

Bundle-Description: HdrHistogram supports the recording and analyzing sampled data value counts across a configurable integer value range with configurable value precision within the range. Value precision is expressed as the number of significant digits in the value recording, and provides control over value quantization behavior across the value range and the subsequent value resolution at any given level.

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Bundle-ManifestVersion: 2

Bundle-Name: HdrHistogram

Bundle-SymbolicName: org.hdrhistogram.HdrHistogram

Bundle-Version: 2.1.12

Created-By: Apache Maven Bundle Plugin

Export-Package: org.HdrHistogram;version="2.1.12",org.HdrHistogram.packagedarray;version="2.1.12"

Implementation-Title: HdrHistogram

Implementation-Vendor-Id: org.hdrhistogram

Implementation-Version: 2.1.12  
Require-Capability: osgi.ee;filter="(&(osgi.ee=JavaSE)(version=1.7))"  
Specification-Title: HdrHistogram  
Specification-Version: 2.1.12  
Tool: Bnd-2.3.0.201405100607

Found in path(s):

\* /opt/cola/permits/1185944801\_1628011594.04/0/hdrhistogram-2-1-12-3-jar/META-INF/MANIFEST.MF

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## 1.31 micronaut-sql-libraries 4.2.2

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\* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/META-INF/native-image/io.micronaut.sql/micronaut-jdbc/native-image.properties

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- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/JdbcDatabaseManager.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/BasicJdbcConfiguration.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/DataSourcePoolMetadataProvider.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/SpringDataSourceResolver.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/package-info.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/DataSourceResolver.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/HibernatePresenceCondition.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/AbstractDataSourcePoolMetadata.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/spring/DataSourceTransactionManagerFactory.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/package-info.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/CalculatedSettings.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/package-info.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/metadata/DataSourcePoolMetadata.java
- \* /opt/cola/permits/1331473530\_1653512647.1916578/0/micronaut-jdbc-4-2-2-sources-jar/io/micronaut/jdbc/nativeimage/JdbcFeature.java

## 1.32 fabric8-::-kubernetes-model-::- autoscaling 5.8.0

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\* /opt/cola/permits/1331473947\_1653517470.7372563/0/kubernetes-model-autoscaling-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-autoscaling/pom.xml

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## 1.33 rest-assured 5.0.1

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\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/ResponseParserRegistrar.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/mapping/JsonbMapper.groovy  
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jar/io/restassured/internal/RestAssuredHttpBuilder.java  
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- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/internal/filter/SendRequestFilter.groovy
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/specification/SpecificationQuerier.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/internal/mapping/GsonMapper.groovy
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/authentication/NoAuthScheme.groovy
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/filter/Filter.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/matcher/ResponseAwareMatcherComposer.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/internal/proxy/RestAssuredProxySelectorRoutePlanner.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/internal/RestAssuredResponseImpl.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/internal/filter/FormAuthFilter.groovy
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/config/HttpClientConfig.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/filter/FilterContext.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/authentication/BasicAuthScheme.groovy
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/internal/NameAndValue.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/matcher/DetailedCookieMatcher.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/specification/LogSpecification.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/builder/ResponseSpecBuilder.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/filter/log/RequestLoggingFilter.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/internal/http/ContentEncoding.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/internal/http/GZIPEncoding.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-jar/io/restassured/authentication/CertificateAuthSettings.java
- \* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-

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\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/response/ResponseOptions.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/specification/AuthenticationSpecification.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/config/FailureConfig.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/authentication/ExplicitNoAuthScheme.groovy  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/TestSpecificationImpl.groovy  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/RestAssured.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/UriValidator.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/MapCreator.groovy  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/matcher/ResponseAwareMatcher.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/TrustAndKeystoreSpec.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/ResponseSpecificationImpl.groovy  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/config/SSLConfig.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/multipart/MultiPartInternal.groovy  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/MultiValueEntity.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/http/HttpResponseDecorator.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/AuthenticationSpecificationImpl.groovy  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/builder/MultiPartSpecBuilder.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/authentication/PreemptiveOAuth2HeaderScheme.groovy  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-  
jar/io/restassured/internal/support/CloseHTTPClientConnectionInputStreamWrapper.java  
\* /opt/cola/permits/1331474147\_1653068667.8163924/0/rest-assured-5-0-1-sources-



```

jar/io/restassured/internal/mapping/ObjectMapping.groovy
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/specification/FilterableResponseSpecification.java
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/internal/util/IOUtils.java
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/internal/matcher/xml/LoadFromClasspathSupport.groovy
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/config/ConnectionConfig.java
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/specification/RedirectSpecification.java
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/internal/matcher/xml/XmlDtdMatcher.groovy
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/response/ValidatableResponseOptions.java
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/internal/SpecificationMerger.groovy
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/config/ObjectMapperConfig.java
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/specification/ResponseSpecification.java
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/internal/LogRequestAndResponseOnFailListener.groovy
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/internal/http/ContentEncodingRegistry.java
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/authentication/OAuth2Scheme.groovy
* /opt/cola/permits/1331474147_1653068667.8163924/0/rest-assured-5-0-1-sources-
jar/io/restassured/config/RestAssuredConfig.java

```

## 1.34 micronaut-cache 3.3.0

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- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/jcache/JCacheSyncCache.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/DefaultCacheErrorHandler.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/serialize/package-info.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/DefaultCacheKeyGenerator.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/Cache.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/CacheInfo.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/package-info.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/CacheInvalidate.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/CacheErrorHandler.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/AsyncCacheErrorHandler.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/package-info.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/ParametersKey.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/PutOperations.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/CacheKeyGenerator.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/discovery/DiscoveryClientCacheConfiguration.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/jcache/package-info.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/CacheInterceptor.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/interceptor/KotlinSuspendFunCacheKeyGenerator.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/annotation/Cacheable.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/SyncCache.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-jar/io/micronaut/cache/discovery/package-info.java
- \* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-

jar/io/micronaut/cache/exceptions/package-info.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/AbstractMapBasedSyncCache.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/serialize/DefaultStringKeySerializer.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/DelegatingAsyncCache.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/annotation/InvalidateOperations.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/DynamicCacheManager.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/jcache/JCacheManager.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/DefaultCacheManager.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/AsyncCache.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/interceptor/package-info.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/discovery/CachingCompositeDiscoveryClient.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/exceptions/CacheSystemException.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/jcache/metrics/JCacheMetricsBinder.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/annotation/CacheConfig.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/annotation/CachePut.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/CacheConfiguration.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/DelegatingAsyncBlockingCache.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/interceptor/ValueSupplierException.java  
\* /opt/cola/permits/1331473554\_1653513966.161154/0/micronaut-cache-core-3-3-0-sources-  
jar/io/micronaut/cache/CacheManager.java

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## 1.35 guava 31.1-jre

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/SortedMultiset.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/SortedMultisets.java

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Found in path(s):

```
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/base/Strings.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/base/Ascii.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/primitives/package-info.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/annotations/Beta.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/net/package-info.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/ContiguousSet.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/SortedLists.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/ListeningExecutorService.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/UncaughtExceptionHandler.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/base/Equivalence.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/ThreadFactoryBuilder.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/ForwardingBlockingQueue.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/Atomics.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/Monitor.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/annotations/package-info.java
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/\*\*

\* Not supported. <b>You are attempting to create a map that may contain a non-{@code Comparable}

\* key.</b> Proper calls will resolve to the version in {@code ImmutableSortedMap}, not this dummy

\* version.

\*

\* @throws UnsupportedOperationException always

\* @deprecated <b>Pass a key of type {@code Comparable} to use {@link

\* [ImmutableSortedMap#of\(Comparable, Object\)](#).</b>

\*/

Found in path(s):

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMapFauxverideShim.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/ToDoubleRounder.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Java8Compatibility.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/BigDecimalMath.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Java8Compatibility.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/OverflowAvoidingLockSupport.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/Java8Compatibility.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/CharSequenceReader.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/WrappingScheduledExecutorService.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/TypeVisitor.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/FilteredMultimapValues.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-

jar/com/google/thirdparty/publicsuffix/PublicSuffixType.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/AbstractTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/VerifyException.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/SubscriberExceptionHandler.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/SubscriberExceptionContext.java  
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jar/com/google/common/base/Verify.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/hash/HashingInputStream.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/GwtFuturesCatchingSpecialization.java

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jar/com/google/common/util/concurrent/UncheckedTimeoutException.java  
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jar/com/google/common/reflect/TypeToken.java  
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jar/com/google/common/util/concurrent/CollectionFuture.java  
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jar/com/google/common/escape/CharEscaperBuilder.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/GwtFluentFutureCatchingSpecialization.java  
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jar/com/google/common/util/concurrent/FuturesGetChecked.java  
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jar/com/google/common/util/concurrent/AbstractCatchingFuture.java  
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jar/com/google/common/util/concurrent/ImmediateFuture.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/FakeTimeLimiter.java  
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jar/com/google/common/util/concurrent/Futures.java  
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jar/com/google/common/base/internal/Finalizer.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/primitives/Chars.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/escape/UnicodeEscaper.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/FileBackedOutputStream.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/MultiReader.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/CommonMatcher.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/CommonPattern.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/PatternCompiler.java  
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jar/com/google/common/eventbus/SubscriberRegistry.java  
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jar/com/google/common/base/MoreObjects.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/Subscriber.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/TrustedListenableFutureTask.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/Dispatcher.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ListenerCallQueue.java  
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\*

\* As of 2010/06/11, this method is identical to the (package private) hash method in OpenJDK 7's  
\* `java.util.HashMap` class.

\*/

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jar/com/google/common/collect/AbstractRangeSet.java

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jar/com/google/common/collect/GeneralRange.java

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jar/com/google/common/collect/ForwardingSortedMultiset.java

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jar/com/google/common/collect/ImmutableSortedMultisetFauxverideShim.java

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jar/com/google/common/collect/RegularImmutableSortedMultiset.java

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jar/com/google/common/collect/ImmutableSortedMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/SortedIterables.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/SortedIterable.java  
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jar/com/google/common/collect/RangeSet.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/CollectSpliterators.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ImmutableBiMapFauxverideShim.java  
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableSet.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingMapEntry.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Multimap.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingIterator.java
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- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/AbstractIterator.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/AbstractMapEntry.java
- \* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/MutableClassToInstanceMap.java
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jar/com/google/common/collect/AbstractListMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingConcurrentMap.java  
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jar/com/google/common/collect/AbstractSortedSetMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
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jar/com/google/common/collect/ClassToInstanceMap.java  
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jar/com/google/common/collect/EnumHashBiMap.java  
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jar/com/google/common/collect/ForwardingSet.java  
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jar/com/google/common/collect/NaturalOrdering.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/LinkedHashMultiset.java  
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jar/com/google/common/collect/ForwardingQueue.java

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```

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Hashing.java

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/\*\*

\* Holder for web specializations of methods of { @code Ints }. Intended to be empty for regular  
\* version.

\*/

Found in path(s):

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/IntsMethodsForWeb.java

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Found in path(s):

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/GwtTransient.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-



jar/com/google/common/util/concurrent/AtomicLongMap.java  
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Found in path(s):

```
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/graph/BaseGraph.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/graph/AbstractBaseGraph.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/graph/Traverser.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/ClosingFuture.java
```

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* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
```

jar/com/google/common/graph/IncidentEdgeSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/CompactHashing.java  
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Found in path(s):

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* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Charsets.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/LittleEndianDataInputStream.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/FinalizablePhantomReference.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/EventBus.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/FinalizableReferenceQueue.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/package-info.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/AllowConcurrentEvents.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/Files.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Defaults.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Throwables.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/CountingOutputStream.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Preconditions.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ListenableFuture.java  
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
```

jar/com/google/common/base/FinalizableSoftReference.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/AbstractFuture.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/LineBuffer.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/AsyncEventBus.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/FinalizableReference.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Predicate.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Objects.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/EnumMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/LineReader.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/primitives/Primitives.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/AbstractIterator.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Functions.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/DeadEvent.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/ByteStreams.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/LittleEndianDataOutputStream.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ExecutionList.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/MultiInputStream.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/CharStreams.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/package-info.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/DirectExecutor.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/CountingInputStream.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Function.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/package-info.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/HashBiMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-

jar/com/google/common/io/Resources.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/FinalizableWeakReference.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/Interners.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Supplier.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Predicates.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/eventbus/Subscribe.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/Flushables.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/package-info.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/io/Closeables.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/base/Suppliers.java

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\* Holder for web specializations of methods of { @code Floats }. Intended to be empty for regular  
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jar/com/google/common/primitives/FloatsMethodsForWeb.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RegularImmutableMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RegularImmutableBiMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Table.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableCollection.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Serialization.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/UnmodifiableIterator.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/TreeBasedTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/EmptyImmutableListMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableMapKeySet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/StandardTable.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableListMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/thirdparty/publicsuffix/PublicSuffixPatterns.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Platform.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/PeekingIterator.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Collections2.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableEntry.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableMapEntrySet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/HashBasedTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableSortedSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableBiMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableMapValues.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Range.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/CollectPreconditions.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/StandardRowSortedTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableMultimap.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/Striped64.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/LongAdder.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/LongAdder.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Striped64.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/SingletonImmutableList.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/EmptyImmutableSetMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ArrayTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RegularImmutableSortedSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/SingletonImmutableTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/TableCollectors.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableSortedSetFauxverideShim.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableEnumSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableClassToInstanceMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/DiscreteDomain.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableAsList.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableSortedMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RegularImmutableList.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ComputationException.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/AbstractIndexedListIterator.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ForwardingTable.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ComparisonChain.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableSetMultimap.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/MutableTypeToInstanceMap.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ListenableScheduledFuture.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/StandardSystemProperty.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/Invokable.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/SipHashFunction.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/StatsAccumulator.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/ByteSink.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/PairedStatsAccumulator.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/CharSink.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableRangeMap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/Parameter.java



\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/AbstractInvocationHandler.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/TypeCapture.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/html/package-info.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/FileWriteMode.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/RateLimiter.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ServiceManager.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/xml/package-info.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/escape/package-info.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/CartesianList.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/ImmutableRangeSet.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/LongAddables.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/TypeToInstanceMap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/ChecksumHashFunction.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/LongAddables.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/CharSource.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/package-info.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/BaseEncoding.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/AbstractByteHasher.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/LongAddable.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/LinearTransformation.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/LongAddable.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/ClassPath.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/FilteredKeyMultimap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/ByteSource.java

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* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/SmoothRateLimiter.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/math/PairedStats.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/reflect/ImmutableTypeToInstanceMap.java
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jar/com/google/common/collect/HashMultimapGwtSerializationDependencies.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/graph/AbstractNetwork.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/graph/StandardValueGraph.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/ImmutableMultisetGwtSerializationDependencies.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
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* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
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jar/com/google/common/graph/DirectedNetworkConnections.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/graph/DirectedMultiNetworkConnections.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/graph/GraphConnections.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/graph/ElementOrder.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/graph/StandardMutableNetwork.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
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jar/com/google/common/graph/DirectedGraphConnections.java  
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jar/com/google/common/collect/ArrayListMultimapGwtSerializationDependencies.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
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jar/com/google/common/graph/AbstractGraphBuilder.java  
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jar/com/google/common/graph/GraphConstants.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/graph/MapRetrievalCache.java  
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jar/com/google/common/graph/UndirectedMultiNetworkConnections.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-

jar/com/google/common/graph/MapIteratorCache.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/graph/StandardMutableValueGraph.java  
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jar/com/google/common/graph/StandardNetwork.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/graph/AbstractUndirectedNetworkConnections.java  
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jar/com/google/common/base/NullnessCasts.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/NullnessCasts.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/NullnessCasts.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/ImmutableGraph.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/Graphs.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/RecursiveDeleteOption.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/ImmutableNetwork.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/Graph.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/InsecureRecursiveDeleteException.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/MutableGraph.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/SuccessorsFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/PredecessorsFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/graph/MutableNetwork.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Splitter.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/JdkFutureAdapters.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/reflect/TypeResolver.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/escape/ArrayBasedCharEscaper.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/MapMaker.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/net/UrlEscapers.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingFuture.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/html/HtmlEscapers.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/ByteProcessor.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingFluentFuture.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/ReferenceEntry.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/xml/XmlEscapers.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/escape/ArrayBasedEscaperMap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/annotations/GwtIncompatible.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingListenableFuture.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/MapMakerInternalMap.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AbstractService.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/DenseImmutableTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/ByteArrayDataOutput.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/LocalCache.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/Callables.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/escape/ArrayBasedUnicodeEscaper.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/Service.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/SettableFuture.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/UnsignedBytes.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/SparseImmutableTable.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Platform.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/LineProcessor.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/net/InternetDomainName.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AbstractIdleService.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/SignedBytes.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/net/HostSpecifier.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/escape/Escapers.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/io/ByteArrayDataInput.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Cut.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/escape/Platform.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Hashing.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/package-info.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/package-info.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/AbstractCompositeHashFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Absent.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/UnsignedLong.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Murmur3\_32HashFunction.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/UnsignedInteger.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/AbstractLoadingCache.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/UncheckedExecutionException.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Hasher.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/BigIntegerMath.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/RemovalListener.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/HashingOutputStream.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/AbstractNonStreamingHashFunction.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Funnels.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/PrimitiveSink.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/DoubleUtils.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/CacheStats.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/RemovalListeners.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Optional.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/AbstractSortedMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Crc32cHashFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/ForwardingCache.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/BloomFilterStrategies.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/UnsignedInts.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/CycleDetectingLockFactory.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/Uninterruptibles.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/net/HttpHeaders.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/DoubleMath.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/DescendingImmutableSortedMultiset.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/math/LongMath.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/CacheBuilderSpec.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AsyncFunction.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/HashCode.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingListeningExecutorService.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/AbstractHasher.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/AbstractCache.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Present.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/UnsignedLongs.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/LoadingCache.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/Queues.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/Cache.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/PairwiseEquivalence.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/net/HostAndPort.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/RemovalNotification.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AbstractScheduledService.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/ParseRequest.java

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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/Weigher.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Funnel.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/MessageDigestHashFunction.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/BoundType.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/Ticker.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/base/FunctionalEquivalence.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RegularImmutableMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/cache/ForwardingLoadingCache.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/AbstractListeningExecutorService.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/AbstractStreamingHasher.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/Murmur3\_128HashFunction.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ExecutionError.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/WrappingExecutorService.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/collect/RegularContiguousSet.java

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\* <http://gee.cs.oswego.edu/cgi-bin/viewcvs.cgi/jsr166/src/test/tck/AbstractExecutorServiceTest.java?revision=1.30>

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\* Holder for extra methods of {`@code Objects`} only in web. Intended to be empty for regular

\* version.

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jar/com/google/common/base/ExtraObjectsMethodsForWeb.java

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jar/com/google/common/collect/TransformedListIterator.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/AllEqualOrdering.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-

jar/com/google/common/collect/UnmodifiableSortedMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ImmutableEnumMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/DescendingMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/FilteredKeySetMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/AbstractNavigableMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingDeque.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/TransformedIterator.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingImmutableSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/AbstractMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-

jar/com/google/common/collect/CompactHashSet.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/SortedMultisetBridge.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/CompactHashMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/RegularImmutableAsList.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/ForwardingImmutableMap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/AbstractSortedKeySortedSetMultimap.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ForwardingBlockingDeque.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/DescendingImmutableSortedSet.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/hash/ImmutableSupplier.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/JdkBackedImmutableMultiset.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/util/concurrent/ExecutionSequencer.java  
\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-  
jar/com/google/common/collect/JdkBackedImmutableSet.java  
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*/
/**
* Holder for web specializations of methods of { @code Shorts}. Intended to be empty for regular
* version.
*/
```

Found in path(s):

```
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/primitives/ShortsMethodsForWeb.java
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* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/IndexedImmutableSet.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableBiMap.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/BaseImmutableMultimap.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/JdkBackedImmutableMap.java
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* the License.
*/
/**
* Outer class that exists solely to let us write {@code Partially.GwtIncompatible} instead of plain
* {@code GwtIncompatible}. This is more accurate for {@link Futures#catching}, which is available
* under GWT but with a slightly different signature.
*
* <p>We can't use {@code PartiallyGwtIncompatible} because then the GWT compiler wouldn't recognize
* it as a {@code GwtIncompatible} annotation. And for {@code Futures.catching}, we need the GWT
* compiler to autostrip the normal server method in order to expose the special, inherited GWT
* version.
*/

```

Found in path(s):

```

* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/Partially.java

```

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*/
/**
* Holder for web specializations of methods of {@code Doubles}. Intended to be empty for regular
* version.
*/

```

Found in path(s):



\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/DoublesMethodsForWeb.java  
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\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/ImmutableDoubleArray.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/hash/AbstractHashFunction.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingCondition.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/ImmutableIntArray.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/primitives/ImmutableLongArray.java

\* /opt/cola/permits/1331474186\_1653068600.1248574/0/guava-31-1-jre-sources-3-jar/com/google/common/util/concurrent/ForwardingLock.java

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```

*/
/**
 * Returns an array containing all of the elements in the specified collection. This method
 * returns the elements in the order they are returned by the collection's iterator. The returned
 * array is "safe" in that no references to it are maintained by the collection. The caller is
 * thus free to modify the returned array.
 *
 * <p>This method assumes that the collection size doesn't change while the method is running.
 *
 * <p>TODO(kevinb): support concurrently modified collections?
 *
 * @param c the collection for which to return an array of elements
 */

```

Found in path(s):

```

* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/ObjectArrays.java

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* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/hash/FarmHashFingerprint64.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/AsyncCallable.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/io/ReaderInputStream.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/AggregateFutureState.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/hash/MacHashFunction.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/CombinedFuture.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-

```

```
jar/com/google/common/util/concurrent/InterruptibleTask.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/hash/LittleEndianByteArray.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/util/concurrent/Platform.java
* /opt/cola/permits/1331474186_1653068600.1248574/0/guava-31-1-jre-sources-3-
jar/com/google/common/collect/ConsumingQueueIterator.java
```

# 1.36 fabric8-:::-kubernetes-model-::- admission-registration,-authentication-and- authorization 5.8.0

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Found in path(s):

```
* /opt/cola/permits/1331473753_1653517593.4087353/0/kubernetes-model-admissionregistration-5-8-0-sources-
jar/META-INF/maven/io.fabric8/kubernetes-model-admissionregistration/pom.xml
```

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* /opt/cola/permits/1331473753_1653517593.4087353/0/kubernetes-model-admissionregistration-5-8-0-sources-
jar/manifest.vm

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* /opt/cola/permits/1331473753_1653517593.4087353/0/kubernetes-model-admissionregistration-5-8-0-sources-
jar/io/fabric8/kubernetes/api/model/admission/v1/AdmissionRequest.java
* /opt/cola/permits/1331473753_1653517593.4087353/0/kubernetes-model-admissionregistration-5-8-0-sources-
jar/io/fabric8/kubernetes/api/model/admission/v1beta1/AdmissionRequest.java

```

# 1.37 junit-platform-junit-platform-commons

## 1.8.2

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\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/helpers/BasicMarker.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/helpers/MessageFormatter.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/helpers/FormattingTuple.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/IMarkerFactory.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/impl/StaticMDCBinder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/spi/MarkerFactoryBinder.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/ILoggerFactory.java  
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\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-

jar/org/slf4j/helpers/NamedLoggerBase.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-  
jar/org/slf4j/spi/MDCAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-  
jar/org/slf4j/MarkerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-  
jar/org/slf4j/impl/StaticLoggerBinder.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-  
jar/org/slf4j/helpers/MarkerIgnoringBase.java  
\* /opt/ws\_local/PERMITS\_SQL/1014221182\_1593546679.56/0/slf4j-api-1-7-29-sources-jar/org/slf4j/Marker.java

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From strings/apr\_fnmatch.c, include/apr\_fnmatch.h, misc/unix/getopt.c, file\_io/unix/mktemp.c, strings/apr\_strings.c:

/\*

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From dso/aix/dso.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_snprintf.c:

- \*
- \* cvt - IEEE floating point formatting routines.
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/inline/MaxStackSizeAndLocalsCalculator.java
  - License: BSD ([license/third\_party/asm\_license.txt][asm])
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- Path: compiler/backend/src/org/jetbrains/kotlin/codegen/optimization/common/FastMethodAnalyzer.kt
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- Path: core/reflection.jvm/src/kotlin.reflect/jvm/internal/pcollections
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- Path: eval4j/src/org/jetbrains/eval4j/interpreterLoop.kt
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- Path: js/js.ast
  - License: BSD ([license/third\_party/dart\_LICENSE.txt][dart])
  - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,
  
- Path: js/js.inliner/src/org/jetbrains/kotlin/js/inline/FunctionInlineMutator.kt
  - License: BSD ([license/third\_party/dart\_LICENSE.txt][dart])
  - Origin: Originally part of the Dart compiler, (c) 2011 the Dart Project Authors,
  
- Path: js/js.parser/src/com/google
  - License: Netscape Public License 1.1 ([license/third\_party/rhino\_LICENSE.txt][rhino])
  - Origin: Originally part of GWT, (C) 2007-08 Google Inc., distributed under the Apache 2 license. The code is derived from Rhino, (C) 1997-1999 Netscape Communications Corporation, distributed under the Netscape Public License.
  
- Path: js/js.translator/qunit/qunit.js
  - License: MIT ([license/third\_party/qunit\_license.txt][qunit])
  - Origin: QUnit, Copyright (c) 2012 John Resig, Jrn Zaefferer,
  
- Path: libraries/stdlib/src/kotlin/collections
  - License: Apache 2 ([license/third\_party/gwt\_license.txt][gwt])
  - Origin: Derived from GWT, (C) 2007-08 Google Inc.
  
- Path: libraries/stdlib/unsigned/src/kotlin/UnsignedUtils.kt
  - License: Apache 2 ([license/third\_party/guava\_license.txt][guava])
  - Origin: Derived from Guava's UnsignedLongs, (C) 2011 The Guava Authors
  
- Path: libraries/stdlib/jvm/src/kotlin/util/MathJVM.kt
  - License: Boost Software License 1.0 ([license/third\_party/boost\_LICENSE.txt][boost])
  - Origin: Derived from boost special math functions, Copyright Eric Ford & Hubert Holin 2001.
  
- Path: libraries/stdlib/js/src/kotlin/collections
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- Path: libraries/stdlib/js-v1/src/js/long.js
  - License: Apache 2 ([license/third\_party/closure-compiler\_LICENSE.txt][closure-compiler])
  - Origin: Google Closure Library, Copyright 2009 The Closure Library Authors
  
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  - License: Boost Software License 1.0 ([license/third\_party/boost\_LICENSE.txt][boost])
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- Path: libraries/stdlib/wasm/internal/kotlin/wasm/internal/Number2String.kt
  - License: Apache 2 ([license/third\_party/assemblyscript\_license.txt][assemblyscript])
  - Origin: Derived from assemblyscript standard library
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- Path: plugins/lint/lint-api
  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
  - Origin: Copyright (C) 2011-15 The Android Open Source Project
- Path: plugins/lint/lint-checks
  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
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- Path: plugins/lint/lint-idea
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- Path: wasm/ir/src/org/jetbrains/kotlin/wasm/ir/convertors
  - License: MIT ([license/third\_party/asmble\_license.txt][asmble])
  - Origin: Copyright (C) 2018 Chad Retz
- Path: compiler/tests-common/tests/org/jetbrains/kotlin/codegen/ir/ComposeLikeGenerationExtension.kt
  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
  - Origin: Derived from JetPack Compose compiler plugin code, Copyright 2019 The Android Open Source Project

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  - License: Eclipse Public License v1.0 ([license/third\_party/testdata/eclipse\_license.txt][eclipse])
  - Origin: Eclipse JDT, Copyright (c) 2011, 2013 Stephan Herrmann and others.
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- Path: third-party/annotations/edu/umd/cs/findbugs
  - License: LGPL 2.1 ([license/third\_party/testdata/findbugs\_license.txt][findbugs])
  - Origin: Bytecode Analysis Framework, Copyright (C) 2005 University of Maryland
  
- Path: third-party/java8-annotations/org/eclipse
  - License: Eclipse Public License v1.0 ([license/third\_party/testdata/eclipse\_license.txt][eclipse])
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- Path: third-party/annotations/io/reactivex
  - License: Apache 2 ([license/third\_party/testdata/rxjava\_license.txt][rxjava])
  - Origin: RxJava, Copyright (c) 2016-present, RxJava Contributors
  
- Path: third-party/java8-annotations/org/jspecify
  - License: Apache 2 ([license/third\_party/testdata/jspecify\_license.txt][jspecify])
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- Path: third-party/annotations/lombok
  - License: MIT ([license/third\_party/testdata/lombok\_license.txt][lombok])
  - Origin: Project Lombok, Copyright (C) 2009-2013 The Project Lombok Authors
  
- Path: idea/idea-android/tests/org/jetbrains/kotlin/android/AndroidTestBase.java
  - License: Apache 2 ([license/third\_party/aosp\_license.txt][aosp])
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- Path: idea/testData/android/lintQuickfix/requiresApi/RequiresApi.java
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- Path: idea/testData/android/lint/IntRange.java
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- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/allOpenSpring/src/org/springframework/stereotype/Component.java
  - License: Apache 2 ([license/third\_party/testdata/spring\_license.txt][spring])
  - Origin: Spring Framework, Copyright 2002-2007 the original author or authors.
  
- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/AndroidDaggerProject

- License: Apache 2 ([license/third\_party/testdata/dagger\_license.txt][dagger])
- Origin: Dagger, Copyright (C) 2013 Square, Inc.
  
- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/kapt2
- License: Apache 2 ([license/third\_party/testdata/dagger\_license.txt][dagger])
- Origin: Dagger, Copyright (C) 2013 Square, Inc.
  
- Path: libraries/tools/kotlin-maven-plugin-test/src/it/test-allopen-spring/src/main/java/org/springframework/stereotype/Component.java
- License: Apache 2 ([license/third\_party/testdata/spring\_license.txt][spring])
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- Origin: Gradle, Copyright 2002-2017 Gradle, Inc.
  
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- Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.
  
- Path: libraries/tools/kotlin-gradle-plugin-integration-tests/src/test/resources/testProject/noArgJpa/src/javax/persistence/Entity.java
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- Origin: javax.persistence, Copyright (c) 2008, 2017 Sun Microsystems, Oracle Corporation.
  
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- Path: libraries/tools/kotlin-test-js-runner/karma-kotlin-reporter.js
- License: MIT ([license/third\_party/karma\_LICENSE.txt](third\_party/karma\_LICENSE.txt) and [license/third\_party/karma-teamcity-reporter\_LICENSE.txt](third\_party/karma-teamcity-reporter\_LICENSE.txt))
- Origin: Copyright (C) 2011-2019 Google, Inc. and Copyright (C) 2011-2013 Vojta Jna and contributors.

- Path: libraries/tools/kotlin-test-js-runner/mocha-kotlin-reporter.js
  - License: MIT ([license/third\_party/mocha-teamcity-reporter\_LICENSE.txt](third\_party/mocha-teamcity-reporter\_LICENSE.txt))
  - Origin: Copyright (c) 2016 Jamie Sherriff
  
- Path: libraries/tools/kotlin-test-js-runner/src/utils.ts
  - License: MIT ([license/third\_party/teamcity-service-messages\_LICENSE.txt](third\_party/teamcity-service-messages\_LICENSE.txt) and [license/third\_party/lodash\_LICENSE.txt](third\_party/lodash\_LICENSE.txt))
  - Origin: Copyright (c) 2013 Aaron Forsander and Copyright JS Foundation and other contributors <<https://js.foundation/>>
  
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  - License: MIT ([license/third\_party/mocha-teamcity-reporter\_LICENSE.txt](third\_party/mocha-teamcity-reporter\_LICENSE.txt) and [license/third\_party/teamcity-service-messages\_LICENSE.txt](third\_party/teamcity-service-messages\_LICENSE.txt))
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  - Origin: jQuery JavaScript Library v1.6.2, Copyright 2011, John Resig
  
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 [findbugs]: third\_party/testdata/findbugs\_license.txt  
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\*/

package tasks

import groovy.util.Node

import groovy.util.XmlParser

import org.gradle.api.DefaultTask

import org.gradle.api.file.RegularFileProperty

import org.gradle.api.provider.Property

import org.gradle.api.tasks.Input

import org.gradle.api.tasks.InputFile

import org.gradle.api.tasks.OutputFile

import org.gradle.api.tasks.TaskAction

import java.util.\*

abstract class WriteCopyrightToFile : DefaultTask() {

    @InputFile

    val path = project.file("\${project.rootDir}/.idea/copyright/apache.xml")

    @get:OutputFile

    abstract val outputFile: RegularFileProperty

    @get:Input

    val commented: Property<Boolean> = project.objects.property(Boolean::class.java).convention(true)

    @TaskAction

    fun write() {

        val file = outputFile.asFile.get()

        file.writeText(if (commented.get()) readCopyrightCommented() else readCopyright())

    }

    private fun readCopyright(): String {

        assert(path.exists()) {

            "File \$path with copyright not found"

        }

        val xmlParser = XmlParser()

        val node = xmlParser.parse(path)

        assert(node.attribute("name") == "CopyrightManager") {

            "Format changed occasionally?"



```

    }

    val copyrightBlock = node.children().filterIsInstance<Node>().single()
    val noticeNode = copyrightBlock.children().filterIsInstance<Node>().single { it.attribute("name") == "notice" }
    return noticeNode.attribute("value").toString().replace("&#36;today.year",
GregorianCalendar()[Calendar.YEAR].toString())
    }

private fun readCopyrightCommented(): String {
    return "/*\n" + readCopyright().prependIndent(" * ") + "\n */"
}
}

```

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

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

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system,

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 \* /opt/cola/permits/1162863465\_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/PrettyPrint.java  
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 \* /opt/cola/permits/1162863465\_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/Json.java  
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- \* /opt/cola/permits/1162863465\_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/test/java/com/bettercloud/vault/json/test/mocking/Mocking\_Test.java
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## Vault Java Driver

=====

A zero-dependency Java client for the [Vault](https://www.vaultproject.io/) secrets management solution from HashiCorp.

This driver strives to implement Vault's full HTTP API, along with supporting functionality such as automatic retry handling. It does so without relying on any other external libraries beyond the Java standard library, and is compatible with Java 8 and up. So it will play nice with all of your projects, greenfield and legacy alike, without causing conflicts with any other dependency.

NOTE: Although the binary artifact produced by the project is backwards-compatible with Java 8, you do need JDK 9 or higher to modify or build the source code of this library itself.

## This Change

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- \* [Installing the Driver](#installing-the-driver)
- \* [Initializing a Driver Instance](#initializing-a-driver-instance)
- \* [Key/Value Secret Engine Config](#key-value-secret-engine-config)
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## Installing the Driver

-----

The driver is available from Maven Central, for all modern Java build systems.

### Gradle:

```
dependencies {  
    implementation 'com.bettercloud:vault-java-driver:5.1.0'  
}
```

Maven:

```
...  
<dependency>  
  <groupId>com.bettercloud</groupId>  
  <artifactId>vault-java-driver</artifactId>  
  <version>5.1.0</version>  
</dependency>  
...
```

### Initializing a Driver Instance

-----  
The `com.bettercloud.vault.VaultConfig` class is used to initialize a driver instance with desired settings. In the most basic use cases, where you are only supplying a Vault server address and perhaps a root token, there are convenience constructor methods available:

```
...  
final VaultConfig config = new VaultConfig()  
    .address("http://127.0.0.1:8200")  
    .token("3c9fd6be-7bc2-9d1f-6fb3-cd746c0fc4e8")  
    .build();  
  
// You may choose not to provide a root token initially, if you plan to use  
// the Vault driver to retrieve one programmatically from an auth backend.  
final VaultConfig config = new VaultConfig().address("http://127.0.0.1:8200").build();  
...
```

To explicitly set additional config parameters (\*), you can use a builder pattern style to construct the `VaultConfig` instance. Either way, the initialization process will try to populate any unset values by looking to environment variables.

```
...  
final VaultConfig config =  
    new VaultConfig()  
        .address("http://127.0.0.1:8200") // Defaults to "VAULT_ADDR" environment variable  
        .token("3c9fd6be-7bc2-9d1f-6fb3-cd746c0fc4e8") // Defaults to "VAULT_TOKEN" environment variable  
        .openTimeout(5) // Defaults to "VAULT_OPEN_TIMEOUT" environment variable  
        .readTimeout(30) // Defaults to "VAULT_READ_TIMEOUT" environment variable  
        .sslConfig(new SslConfig().build()) // See "SSL Config" section below  
        .build();  
...
```

Once you have initialized a `VaultConfig` object, you can use it to construct an instance of the `Vault` primary driver class:

```
...  
final Vault vault = new Vault(config);  
...
```

Key Value Secret Engine Config

-----  
Shortly before its `1.0` release, Vault added a Version 2 of its [Key/Value Secrets Engine](https://www.vaultproject.io/docs/secrets/kv/index.html). This supports some additional features beyond the Version 1 that was the default in earlier Vault builds (e.g. secret rotation, soft deletes, etc).

Unfortunately, K/V V2 introduces some breaking changes, in terms of both request/response payloads as well as how URL's are constructed for Vault's REST API. Therefore, version `4.0.0` of this Vault Driver likewise had to introduce some breaking changes, to allow support for both K/V versions.

\* \*\*If you are using the new K/V V2 across the board\*\*, then no action is needed. The Vault Driver now assumes this by default.

\* \*\*If you are still using the old K/V V1 across the board\*\*, then you can use the `Vault` class constructor: `public Vault(final VaultConfig vaultConfig, final Integer engineVersion)`, supplying a `1` as the engine version parameter. constructor, then you can declare whether to use Version 1 or 2 across the board.

\* \*\*If you are using a mix, of some secret paths mounted with V1 and others mounted with V2\*\*, then you have two options:

\* You can explicitly specify your Vault secret paths, and which K/V version each one is using. Construct your `Vault` objects with the constructor `public Vault(final VaultConfig vaultConfig, final Boolean useSecretsEnginePathMap, final Integer globalFallbackVersion)`. Within the `VaultConfig` object, supply a map of Vault secret paths to their associated K/V version (`1` or `2`).

\* You can rely on the Vault Driver to auto-detect your mounts and K/V versions upon instantiation. Use the same constructor as above, but leave the map `null`. Note that this option requires your authentication credentials to have access to read Vault's `/v1/sys/mounts` path.

Version 2 of the K/V engine dynamically injects a qualifier element into your secret paths, which varies depending on the type of for read and write operations, in between the root version operation. For example, for read and write operations, the secret path:

```
```v1/mysecret```
```

... has a "data" qualifier injected:

```
```v1/data/mysecret```
```

The default behavior of this driver is to insert the appropriate qualifier one level deep (i.e. in between the root version number and the rest of the path). However, if your secret path is prefixed, such that the qualifier should be injected further

down:

```
```v1/my/long/prefix/data/anything/else```
```

... then you should accordingly set the ``VaultConfig.prefixPathDepth`` property when constructing your ``Vault`` instance.

## SSL Config

-----

If your Vault server uses a SSL certificate, then you must supply that certificate to establish connections. Also, if you are using certificate-based client authentication, then you must supply a client certificate and private key that have been previously registered with your Vault server.

SSL configuration has been broken off from the ``VaultConfig`` class, and placed in its own ``SslConfig`` class. This class likewise using a builder pattern.

### #### General Options

---

```
.verify(false) // Defaults to "VAULT_SSL_VERIFY" environment variable (or else "true")
```

---

To disable SSL certificate verification altogether, set ``sslVerify(false)``. **YOU SHOULD NOT DO THIS IS A REAL**

**PRODUCTION SETTING!** However, it can be useful in a development or testing server context. If this value is explicitly set to ``false``, then all other SSL config is basically unused.

### #### Java Keystore (JKS) based config

You can provide the driver with a JKS truststore, containing Vault's server-side certificate for basic SSL, using one of the following three options:

``trustStore(object)`` - Supply an in-memory ``java.security.KeyStore`` file, containing Vault server cert(s) that can be trusted.

``trustStoreFile(path)`` - Same as the above, but the path references a JKS file on the filesystem.

``trustStoreResource(path)`` - Same as the above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the JKS file into your application's JAR, WAR, or EAR file).

If you are only using basic SSL, then no keystore need be provided. However, if you would like to use Vault's TLS Certificate auth backend for client side auth, then you need to provide a JKS keystore containing your client-side certificate and private key:

``keyStore(object, password)`` - Supply an in-memory ``java.security.KeyStore`` file containing a client certificate and private key, and the password needed to access it (can be null).

can be trusted.

``keyStoreFile(path, password)`` - Same as the above, but the path references a JKS file on the filesystem.

``keyStoreResource(path, password)`` - Same as the above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the JKS file into your application's JAR, WAR, or EAR file).

NOTE: JKS-based config trumps PEM-based config (see below). If for some reason you build an ``SslConfig`` object with both JKS and PEM data present, then only the JKS data will be used. You cannot "mix-and-match", providing a JKS-based truststore and PEM-based client auth data.

#### OpenSSL (PEM) based config

To supply Vault's server-side certificate for basic SSL, you can use one of the following three options:

``pemFile(path)`` - Supply the path to an X.509 certificate in unencrypted PEM format, using UTF-8 encoding (defaults to "VAULT\_SSL\_CERT" environment variable).

``pemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``pemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly, there must be a line-break in between the certificate header and body (see the ``SslConfig`` Javadocs for more detail).

If SSL verification is enabled, no JKS-based config is provided, AND none of these three methods are called, then ``SslConfig`` will by default check for a ``VAULT_SSL_CERT`` environment variable. If that's setw then it will be treated as a filesystem path.

To use Vault's TLS Certificate auth backend for SSL client auth, you must provide your client certificate and private key, using some pair from the following options:

``clientPemUTF8(path)`` - Supply the path to an X.509 certificate in unencrypted PEM format, using UTF-8 encoding.

``clientPemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``clientPemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly, there must be a line-break in between the certificate header and body (see the ``SslConfig`` Javadocs for more detail).

``.clientKeyPemUTF8(path)`` - Supply the path to an RSA private key in unencrypted PEM format, using UTF-8 encoding.

``.clientKeyPemResource(path)`` - Same as above, but the path references a classpath resource rather than a filesystem path (e.g. if

you've bundled the PEM file into your applications's JAR, WAR, or EAR file).

``.clientKeyPemUTF8(contents)`` - The string contents extracted from the PEM file. For Java to parse the certificate properly,

there must be a line-break in between the certificate header and body (see the ``.SslConfig`` Javadocs for more detail).

Using the Driver

-----

Like the ``.VaultConfig`` class, ``.Vault`` too supports a builder pattern DSL style:

---

```
final Map<String, String> secrets = new HashMap<String, String>();
secrets.put("value", "world");
secrets.put("other_value", "You can store multiple name/value pairs under a single key");
```

// Write operation

```
final LogicalResponse writeResponse = vault.logical()
    .write("secret/hello", secrets);
```

...

// Read operation

```
final String value = vault.logical()
    .read("secret/hello")
    .getData().get("value");
```

---

``.Vault`` has a number of methods for accessing the classes that implement the various endpoints of Vault's HTTP API:

- \* ``.logical()``: Contains core operations such as reading and writing secrets.
- \* ``.auth()``: Exposes methods for working with Vault's various auth backends (e.g. to programmatically retrieve a token by authenticating with a username and password).
- \* ``.pki()``: Operations on the PKI backend (e.g. create and delete roles, issue certificate credentials).
- \* ``.debug()``: Health check endpoints.

The driver DSL also allows you to specify retry logic, by chaining the ``.withRetries()`` ahead of accessing the endpoint

implementation:

...

```
// Retry up to 5 times if failures occur, waiting 1000 milliseconds in between each retry attempt.
```

```
final LogicalResponse response = vault.withRetries(5, 1000)
```

```
    .logical()
```

```
    .read("secret/hello");
```

...

API Reference (Javadocs)

-----

Full [Javadoc documentation](<http://bettercloud.github.io/vault-java-driver/javadoc/>).

Version History

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Note that changes to the major version (i.e. the first number) represent possible breaking changes, and may require modifications in your code to migrate. Changes to the minor version (i.e. the second number) should represent non-breaking changes. The third number represents any very minor bugfix patches.

**5.1.0**: This release contains the following updates:

- \* Supports path prefixes when using K/V engine V2. [(PR #189)](<https://github.com/BetterCloud/vault-java-driver/pull/189>)

- \* Fixes issues with bulk requests in the transit API. [(PR #195)](<https://github.com/BetterCloud/vault-java-driver/pull/195>)

- \* Adds response body to exception for Auth failures. [(PR #198)](<https://github.com/BetterCloud/vault-java-driver/pull/198>)

- \* Support all options for the createToken operation. [(PR #199)](<https://github.com/BetterCloud/vault-java-driver/pull/199>)

**5.0.0**: This release contains the following updates:

- \* Changes the retry behavior, to no longer attempt retries on 4xx response codes (for which retries generally won't succeed anyway). This

- is the only (mildly) breaking change in this release, necessitating a major version bump. [(PR #176)](<https://github.com/BetterCloud/vault-java-driver/pull/176>)

- \* Implements support for the Database secret engine. [(PR #175)](<https://github.com/BetterCloud/vault-java-driver/pull/175>)

- \* Makes the "x-vault-token" header optional, to allow use of Vault Agent. [(PR #184)](<https://github.com/BetterCloud/vault-java-driver/pull/184>)

- \* Removes stray uses of `System.out.println` in favor of `java.util.logging`. [(PR #178)](<https://github.com/BetterCloud/vault-java-driver/pull/178>)

- \* Adds the enum constant `MountType.KEY_VALUE_V2`. [(PR #182)](<https://github.com/BetterCloud/vault-java-driver/pull/182>)

**4.1.0**: This release contains the following updates:

- \* Support for JWT authentication, for use by Kubernetes and other JWT-based authentication providers. [(PR #164)](<https://github.com/BetterCloud/vault-java-driver/pull/164>)

- \* Updates the lease revoke method, to support changes in the underlying Vault API. [(PR



- #163)](<https://github.com/BetterCloud/vault-java-driver/pull/163>)
- \* Changes the `VaultConfig.secretsEnginePathMap(...)` method from default access level to `public`, to allow for manual setting [(PR #164)](<https://github.com/BetterCloud/vault-java-driver/pull/156>)
  - \* Adds the nonce value to `AuthResponse`, to facilitate re-authentication with Vault via AWS. [(PR #168)](<https://github.com/BetterCloud/vault-java-driver/pull/168>)
  - \* Establishes a `module-info` file, updates the JDK requirement for building this library to Java 9 (although the built library artifact remains compatible as a dependency in Java 8 projects). [(PR #165)](<https://github.com/BetterCloud/vault-java-driver/pull/165>)
  - \* Updates Gradle, and various test dependencies to their latest versions. Integration tests now target Vault 1.1.3.
- 4.0.0**: This is a breaking-change release, with two primary updates:
- \* Adds support for Version 2 of the Key/Value Secrets Engine. The driver now assumes that your Vault instance uses Version 2 of the Key/Value Secrets Engine across the board. To configure this, see the [Key/Value Secret Engine Config](#key-value-secret-engine-config) section above.
  - \* Adds support for the namespaces feature of Vault Enterprise.
- 3.1.0**: Several updates.
- \* Adds support for seal-related operations (i.e. `/sys/seal`, `/sys/unseal`, `/sys/seal-status`).
  - \* Adds support for the AWS auth backend.
  - \* Adds support for the Google Cloud Platform auth backend.
  - \* Adds support for the LDAP auth Backend.
  - \* Allows auth backend methods to be configured for non-default mount points.
  - \* Adds "revoke-self" capability for auth tokens.
  - \* Adds support for response-wrapping token validation
  - \* Support for signing a new certificate based on a CSR (i.e. the `/v1/pki/sign` endpoint).
  - \* Support for the PKI backend revoke method, and addition of a `useCsrSans` property in PKI role object
  - \* Gives `VaultConfig` the ability to disable loading from environment variables if desired.
  - \* Cleans up issues with the new Docker-based integration test suite.
  - \* Updates all dependencies to their latest versions (including switching to Vault 0.9.1 for integration testing).
- 3.0.0**: This is a breaking-change release, with several updates.
- API changes**:
- \* Adds support for writing arbitrary objects to Vault, instead of just strings (i.e. the `com.bettercloud.vault.api.Logical.write(...)` method now accepts a `Map<String, Object>` rather than a `Map<String, String>`).
  - \* Refactors the `VaultConfig` class, forcing use of the builder pattern and breaking off SSL-related config into a separate `SslConfig` class.
  - \* Refactors the `Auth.createToken()` method, to encapsulate the possible options within a config object rather than having the method signature contain 8 optional arguments.
- SSL and Auth Backend support**:
- \* Adds support for authenticating with the TLS Certificate auth backend.
  - \* Updates SSL support in general, allowing users to configure the driver with Java-friendly JKS keystore and truststore files (in addition to continuing to support Vault-friendly PEM format).
  - \* Implements the `/v1/auth/token/lookup-self` endpoint.

- \* Supports creating tokens against a role.
  - \* \*\*Major re-vamp of the integration test suite\*\*:
  - \* The tests now use the [TestContainers](https://www.testcontainers.org/) library to setup and launch a Vault server instance from within a Docker container, in a completely automated manner. You no longer have to manually configure and run a Vault server to use the test suite!
  - \* The tests are now going against a regular Vault server, rather than one running in "dev mode". Therefore, they are now able to use HTTPS connections rather than plain HTTP.
  - \* Upgrades tests to use Java 8 (although the library itself still targets Java 7).
  - \* \*\*Misc / quality-of-life\*\*:
  - \* Includes the REST response body in `VaultException` messages for basic read and write operations.
  - \* Makes numerous classes implement `Serializable`.
  - \* Upgrades the project to Gradle 4.0.
- 
- \* \*\*2.0.0\*\*:
  - \* This is breaking-change release, with numerous deprecated items cleaned up.
  - \* Adds support for authentication via the AppRole auth backend.
  - \* Adds support for renewing secret leases.
  - \* Removes the `com.bettercloud.vault.api.Sys` class, deprecated in the 1.2.0 release.
  - \* Removes the `com.bettercloud.vault.api.Auth.loginByUsernamePassword` method, deprecated in the 1.2.0 release.
  - \* Removes the fields `leaseId`, `leaseDuration`, and `renewable` from the `VaultResponse` base class, instead including them only in the subclasses for specific response types where they are found.
  - \* Changes the `com.bettercloud.vault.response.AuthResponse` class field `authLeaseDuration` from type `int` to `long`.
  - \* Refactors and removes various deprecated `private` methods, with no change to the exposed API.
- 
- \* \*\*1.2.0\*\*:
  - \* This is a substantial release, with numerous additions. It's a minor version number only because there should be no breaking changes. The changes include the following:
  - \* Switches from Vault 0.5.x to 0.6.x for automated tests.
  - \* Adds a field to `VaultException` for capturing the HTTP response code (if any) from Vault.
  - \* Updates the Gradle build, so that you no longer need empty placeholder values for certain variables elsewhere in your environment.
  - \* Updates integration test suite to account for breaking changes in Vault 0.6.x (e.g. you can no longer use a token that was obtained from one of the authentication backends to perform tasks such as creating and deleting roles, etc).
  - \* Deprecates the App ID authentication backend, and adds a new version of the Userpass authentication backend that doesn't require a path prefix. Adds support for the GitHub authentication backend.
  - \* If the `VAULT\_TOKEN` environment parameter is not set, then the driver will now check for a file named `vault-token` in the executing user's home directory, and try to read a token value from that.
  - \* Deprecates the `com.bettercloud.vault.api.Sys` class, moving the debug-related methods into their own specific `com.bettercloud.vault.api.Debug` class instead.
  - \* Implements some of the lease related endpoints (i.e. revoke, revoke-prefix, revoke-force).
  - \* Supports PKI backends that are mounted on non-default paths.
- 
- \* \*\*1.1.1\*\*:
  - \* Changes the `ttl` argument to `Pki.issue()` from `Integer` to `String`, to fix a bug preventing you from specifying the time suffix (e.g. "1h").

- \* \*\*1.1.0\*\*\*: Switches from Vault 0.4.x to 0.5.x for automated tests. Adds support to the Logical API wrapper for listing and deleting secrets. Implements the `/v1/sys/health` health-check HTTP API endpoint. Implements portions of the PKI backend (e.g. creating and deleting roles, issuing credentials). Marks numerous methods as deprecated, to be removed in a future major release.
- \* \*\*1.0.0\*\*\*: Drops support for Java 6. Removes all methods marked as `@Deprecated` in version 0.5.0. Adds support for response metadata (i.e. "lease\_id", "renewable", "lease\_duration") to all response types, rather than just `AuthResponse`. Changes `leaseDuration` type from `int` to `Long` in `AuthResponse`. Removes `final` declarations on all classes (outside of the JSON package). Various bugfixes. Adds support for auth token self-renewal. Adds support for writing values that return content.
- \* \*\*0.5.0\*\*\*: Adds support for supplying SSL certificates, and for toggling whether or not the Vault server's SSL certificate will be verified. Also adds support for "openTimeout" and "readTimeout" settings. Deprecates the "timeout", "sslTimeout", "proxyAddress", "proxyPort", "proxyUsername", and "proxyPassword" settings (the proxy settings may return in a future version, but it's too misleading to have methods exposed for settings that won't really be supported soon).
- \* \*\*0.3.0\*\*\*: Initial public release. Support for writing and reading secrets, authenticating with the "AppID" or "Username & Password" auth backends. All over-the-wire methods support automatic retry logic.

## Development

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Pull requests are welcomed for bugfixes or enhancements that do not alter the external facing class and method signatures. For any breaking changes that would alter the contract provided by this driver, please open up an issue to discuss it first.

All code changes should include unit test and/or integration test coverage as appropriate. Unit tests are any that can be run in isolation, with no external dependencies. Integration tests are those which require a Vault server instance (at least a Dev Server) up and running.

Unit tests are located under the `src/test` directory, and can be run with the Gradle `unitTest` task.

Integration tests are located under the `src/test-integration` directory, and can be run with the Gradle `integrationTest` task. See the additional `README.md` file in this directory for more detailed information.

Although this library now includes a `module-info` class for use by Java 9+, the library currently targets Java 8 compatibility. Please do not attempt to introduce any features or syntax not compatible with Java 8 (the Gradle build script should prevent you from doing so without modification).

## License

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Other Notes

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The Vault server system itself is a product of HashiCorp, a completely separate organization.

This client driver adapts JSON parsing code from Ralf Sternberg's excellent [minimal-json](<https://github.com/ralfstx/minimal-json>) library, likewise available under the MIT License. Package names have all been changed, to prevent any conflicts should you happen to be using a different version of that library elsewhere in your project dependencies.

Found in path(s):

\* /opt/cola/permits/1162863465\_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/README.md

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/\*\*

\* <p>Intended for internal use by other classes within the Vault driver library.</p>

\*

\* <p>JSON parsing functionality. The classes in this package are adapted from Ralf Sternberg's excellent

\* <a href="https://github.com/ralfstx/minimal-json">"minimal-json"</a> library, available under the MIT License.

\* The package names have all been changed, to prevent any conflicts should you happen to be using a different

\* version of this library elsewhere in your project dependencies.</p>

\*/

Found in path(s):

\* /opt/cola/permits/1162863465\_1653505868.969204/0/vault-java-driver-master-1-zip/vault-java-driver-master/src/main/java/com/bettercloud/vault/json/package-info.java

## 1.44 fabric8-::-kubernetes-model-::-batch

### 5.8.0

#### 1.44.1 Available under license :

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\* /opt/cola/permits/1331473811\_1653517315.5921018/0/kubernetes-model-batch-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-batch/pom.xml

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\* /opt/cola/permits/1331473811\_1653517315.5921018/0/kubernetes-model-batch-5-8-0-sources-jar/manifest.vm

## 1.45 jackson-databind 2.13.2.2

### 1.45.1 Available under license :

# 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.

## ## Licensing

Jackson 2.x core and extension components are licensed under Apache License 2.0  
To find the details that apply to this artifact see the accompanying LICENSE file.

## ## Credits

A list of contributors may be found from CREDITS(-2.x) file, which is included in some artifacts (usually source distributions); but is always available from the source code management (SCM) system project uses.

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## 1.46 asm-commons 9.1

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Manifest-Version: 1.0

Bundle-DocURL: <http://asm.ow2.org>

Bundle-License: BSD-3-Clause;link=<https://asm.ow2.io/LICENSE.txt>

Bundle-ManifestVersion: 2

Bundle-Name: org.objectweb.asm.commons

Bundle-RequiredExecutionEnvironment: J2SE-1.5

Bundle-SymbolicName: org.objectweb.asm.commons

Bundle-Version: 9.1.0

Export-Package: org.objectweb.asm.commons;version="9.1";uses:="org.objectweb.asm,org.objectweb.asm.signature,org.objectweb.asm.tree"

Implementation-Title: Usefull class adapters based on ASM, a very small and fast Java bytecode manipulation framework

Implementation-Version: 9.1

Import-Package: org.objectweb.asm;version="[9.1,10)",org.objectweb.asm.signature;version="[9.1,10)",org.objectweb.asm.tree;version="[9.1,10)"

Module-Requires: org.objectweb.asm;transitive=true,org.objectweb.asm.t

ree;transitive=true,org.objectweb.asm.tree.analysis;transitive=true

Found in path(s):

\* /opt/cola/permits/1183889887\_1627494130.56/0/asm-commons-9-1-jar/META-INF/MANIFEST.MF

## 1.47 junit-jupiter-junit-jupiter-api 5.8.2

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zip/org/intellij/lang/annotations/MagicConstant.java

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zip/org/jetbrains/annotations/TestOnly.java

\* /opt/cola/permits/1331473649\_1653510392.001332/0/1463-annotations-17-0-0-sources-  
zip/org/intellij/lang/annotations/Flow.java



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zip/org/intellij/lang/annotations/Identifier.java
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```
* /opt/cola/permits/1331473649_1653510392.001332/0/1463-annotations-17-0-0-sources-  
zip/org/intellij/lang/annotations/RegExp.java
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* /opt/cola/permits/1331473649_1653510392.001332/0/1463-annotations-17-0-0-sources-  
zip/org/intellij/lang/annotations/Subst.java
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```
* /opt/cola/permits/1331473649_1653510392.001332/0/1463-annotations-17-0-0-sources-  
zip/org/intellij/lang/annotations/Language.java
```

```
* /opt/cola/permits/1331473649_1653510392.001332/0/1463-annotations-17-0-0-sources-  
zip/org/intellij/lang/annotations/Pattern.java
```

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* /opt/cola/permits/1331473649_1653510392.001332/0/1463-annotations-17-0-0-sources-  
zip/org/intellij/lang/annotations/PrintFormat.java
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zip/org/jetbrains/annotations/PropertyKey.java

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zip/org/jetbrains/annotations/NonNls.java

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\* /opt/cola/permits/1331473789\_1653517094.7882247/0/kubernetes-model-metrics-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-metrics/pom.xml

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Found in path(s):

\* /opt/cola/permits/1331473789\_1653517094.7882247/0/kubernetes-model-metrics-5-8-0-sources-jar/manifest.vm

## 1.51 apache-log4j-layout-for-json-template

### 2.17.2

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## 1.52 picocli 4.5.2

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## 1.53 fabric8-::-kubernetes-model-::-certificates 5.8.0

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\* /opt/cola/permits/1331473800\_1653517348.8378077/0/kubernetes-model-certificates-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-certificates/pom.xml



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```
* /opt/cola/permits/1331473800_1653517348.8378077/0/kubernetes-model-certificates-5-8-0-sources-  
jar/manifest.vm
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### 5.8.0

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\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/ShortNames.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/Version.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/Group.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/PrinterColumn.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/LabelSelector.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/Kind.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/SpecReplicas.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/StatusReplicas.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/Singular.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/util/Helper.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/Generated.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/Scope.java

\* /opt/cola/permits/1331474225\_1653517422.855335/0/kubernetes-model-common-5-8-0-sources-jar/io/fabric8/kubernetes/model/annotation/Plural.java

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\* /opt/cola/permits/1331473765\_1653517048.2607188/0/kubernetes-model-networking-5-8-0-sources-jar/manifest.vm

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\* /opt/cola/permits/1331474024\_1653514667.171494/0/micronaut-micrometer-registry-prometheus-4-2-1-sources-jar/io/micronaut/configuration/metrics/micrometer/prometheus/management/package-info.java

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jar/io/micronaut/configuration/metrics/micrometer/prometheus/management/PrometheusEndpoint.java
* /opt/cola/permits/1331474024_1653514667.171494/0/micronaut-micrometer-registry-prometheus-4-2-1-sources-
jar/io/micronaut/configuration/metrics/micrometer/prometheus/PrometheusMeterRegistryFactory.java
* /opt/cola/permits/1331474024_1653514667.171494/0/micronaut-micrometer-registry-prometheus-4-2-1-sources-
jar/io/micronaut/configuration/metrics/micrometer/prometheus/package-info.java
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* /opt/cola/permits/1331474024_1653514667.171494/0/micronaut-micrometer-registry-prometheus-4-2-1-sources-
jar/META-INF/native-image/io.micronaut.micrometer/micronaut-micrometer-registry-prometheus/native-
image.properties
```

## 1.57 apache-log4j-api 2.17.2

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```
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">

<head>
<meta http-equiv="Content-Type" content="text/html;charset=utf-8" />
<title>EasyMock License</title>
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</head>

<body><div class="bodywidth">

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</body>
</html>
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# 1.59 micronaut-micrometer 4.2.1

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* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/web/HttpMeterFilterFactory.java
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jar/io/micronaut/configuration/metrics/micrometer/ExportConfigurationProperties.java
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jar/io/micronaut/configuration/metrics/aggregator/MeterRegistryConfigurer.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/cache/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/netty/InstrumentedKQueueEventLoopGroupFactory.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/annotation/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/executor/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/netty/ByteBufAllocatorMetricsBinder.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/web/ClientRequestMetricRegistryFilter.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/aggregator/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/micrometer/intercept/TimedInterceptor.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/aggregator/CompositeMeterRegistryConfigurer.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/management/endpoint/MetricsEndpoint.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/micrometer/MeterRegistryFactory.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/web/ServerRequestMeterRegistryFilter.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/logging/package-info.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
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jar/io/micronaut/configuration/metrics/micrometer/annotation/MicrometerTimed.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/micrometer/logging/package-info.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/logging/LogbackMeterRegistryBinderFactory.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/netty/MonitoredQueue.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/micrometer/logging/LoggingMeterRegistryFactory.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/datasource/DataSourcePoolMetricsBinderFactory.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/datasource/DataSourcePoolMetricsBinder.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/web/package-info.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/netty/NettyMetrics.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/system/package-info.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/jvm/package-info.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/micrometer/package-info.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/datasource/package-info.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/system/SystemMeterRegistryBinderFactoryFactory.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/cache/MicronautCaffeineCacheMetrics.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/jvm/JvmMeterRegistryBinderFactory.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/netty/ChannelMetricsHandler.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/netty/InstrumentedEpollEventLoopGroupFactory.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/annotation/RequiresMetrics.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/management/endpoint/package-info.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/netty/InstrumentedNioEventLoopGroupFactory.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/executor/ExecutorServiceMetricsBinder.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/common/tags/CommonTagsConfigurer.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-  
jar/io/micronaut/configuration/metrics/binder/netty/package-info.java  
\* /opt/cola/permits/1331474018\_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-

```
jar/io/micronaut/configuration/metrics/binder/cache/JCacheMetricsBinder.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/netty/NettyMetricsPipelineBinder.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/web/WebMetricsPublisher.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/netty/InstrumentedEventLoopTaskQueueFactory.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/cache/MicronautCaffeineCacheMetricsBinder.java
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INF/native-image/io.micronaut.micrometer/micronaut-micrometer-core/native-image.properties
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* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/binder/grpc/GrpcMetricsListenerFactory.java
* /opt/cola/permits/1331474018_1653514625.490619/0/micronaut-micrometer-core-4-2-1-sources-
jar/io/micronaut/configuration/metrics/micrometer/intercept/CountedInterceptor.java
```

## 1.60 micronaut 3.4.2

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```
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/optim/StaticOptimizations.java
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/type/DefaultGenericPlaceholder.java
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/annotation/Nullable.java
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/annotation/NonNull.java
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/util/RegexPathMatcher.java
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/type/GenericPlaceholder.java
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
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* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/type/RuntimeTypeInfo.java
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
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* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
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* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/type/TypeInfo.java
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/convert/converters/MultiValuesConverterFactory.java
* /opt/cola/permits/1331473594_1653514718.684344/0/micronaut-core-3-4-2-sources-
jar/io/micronaut/core/annotation/AccessorsStyle.java
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\* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/beans/AbstractBeanConstructor.java  
\* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/type/TypeInfoProvider.java  
\* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/beans/BeanConstructor.java

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\* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/util/clhm/package-info.java

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\* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/convert/ImmutableArgumentConversionContext.java

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jar/io/micronaut/core/util/clhm/ConcurrentLinkedHashMap.java  
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image/io.micronaut/micronaut-core/native-image.properties  
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- \* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/attr/MutableAttributeHolder.java
- \* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/io/Writable.java
- \* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/io/scan/ClassPathResourceLoader.java
- \* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/naming/NameUtils.java
- \* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/order/package-info.java
- \* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/bind/exceptions/UnsatisfiedArgumentException.java
- \* /opt/cola/permits/1331473594\_1653514718.684344/0/micronaut-core-3-4-2-sources-jar/io/micronaut/core/serialize/ObjectSerializer.java
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jar/io/micronaut/core/annotation/package-info.java

# 1.61 open-telemetry/opentelemetry-java

## 1.12.0

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## 1.62 jakarta-dependency-injection 2.0.1

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## 1.63 fabric8-::-kubernetes-model-::-events

### 5.8.0

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\* /opt/cola/permits/1331474259\_1653517222.463671/0/kubernetes-model-events-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-events/pom.xml

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# 1.64 apiguardian-apiguardian-api 1.1.2

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## 1.65 asm-tree 9.1

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Bundle-DocURL: <http://asm.ow2.org>

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Bundle-ManifestVersion: 2

Bundle-Name: org.objectweb.asm.tree

Bundle-RequiredExecutionEnvironment: J2SE-1.5

Bundle-SymbolicName: org.objectweb.asm.tree

Bundle-Version: 9.1.0

Export-Package: org.objectweb.asm.tree;version="9.1";uses:="org.objectweb.asm"

Implementation-Title: Tree API of ASM, a very small and fast Java byte code manipulation framework

Implementation-Version: 9.1

Import-Package: org.objectweb.asm;version="[9.1,10)"

Module-Requires: org.objectweb.asm;transitive=true

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\* /opt/cola/permits/1183890441\_1627493647.83/0/asm-tree-9-1-jar/META-INF/MANIFEST.MF

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- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ClassWriter.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/signature/SignatureVisitor.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Attribute.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Opcodes.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Handle.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/MethodTooLargeException.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/signature/SignatureReader.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/TypeReference.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Context.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Label.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Type.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/FieldVisitor.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Handler.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/SymbolTable.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ClassReader.java
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- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/RecordComponentVisitor.java
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- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/Symbol.java
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- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ClassTooLargeException.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ByteVector.java
- \* /opt/cola/permits/1150153141\_1627681655.27/0/asm-9-1-sources-1-jar/org/objectweb/asm/ClassVisitor.java

# 1.67 jdbc3-bom 3.20.1

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# Jdbi 1 & 2

- Brian McCallister
- Martin Traverso
- Henning Schmiedehausen
- Jax Law
- maniax, for finding a nasty bug in named parameter substitution
- Robert Sfeir, for batch processing feature requests
- Henry Yandell, for `in` clause expansion feature request
- Patrick Bureson, for showing that `DBIException` should extend `RuntimeException`
- Thomas Risberg, for the Spring `DataAccessException` wrapping code
- Simone Gianni, for finding and solving a nasty `setNull` bug
- Thomas Dudziak

# Jdbi 3

- Steven Schlansker
- Matthew Hall
- Artem Prigoda
- Marnick L'Eau

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# 1.68 micronaut-redis 5.2.0

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- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/AsyncCacheCommands.java
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- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/RedisCache.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/package-info.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/test/EmbeddedRedisServer.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/expiration/ExpirationAfterWritePolicy.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/NamedRedisServersConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/AbstractRedisConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/AbstractRedisCacheConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/RedisSetting.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/expiration/ConstantExpirationAfterWritePolicy.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/package-info.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/cache/RedisCacheConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/RedisHttpSessionConfiguration.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/test/package-info.java
- \* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/DefaultRedisClientFactory.java

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\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/RedisConnectionUtil.java  
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\* /opt/cola/permits/1331473606\_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-jar/io/micronaut/configuration/lettuce/session/RedisSessionCommands.java  
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jar/io/micronaut/configuration/lettuce/ClientResourcesMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/MetricsClientResourceMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/ThreadPoolClientResourceMutator.java
* /opt/cola/permits/1331473606_1653513048.6155212/0/micronaut-redis-lettuce-5-2-0-sources-
jar/io/micronaut/configuration/lettuce/health/RedisHealthIndicator.java
```

## 1.69 testcontainers-::-localstack 1.16.2

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neo4j:3.5.0-enterprise

a

b

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- \* /opt/cola/permits/1331474006\_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-jar/io/micronaut/discovery/cloud/aws/package-info.java
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- \* /opt/cola/permits/1331474006\_1653507028.4352036/0/micronaut-aws-common-3-2-3-sources-jar/io/micronaut/discovery/cloud/aws/AmazonMetadataConfiguration.java

## 1.71 rest-assured-common 5.0.1

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```

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\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/assertion/Assertion.groovy  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/assertion/GetAtPathFragmentEscaper.groovy  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/mapper/ObjectDeserializationContextImpl.groovy  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/assertion/AssertionSupport.groovy  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/assertion/PathFragmentEscaper.groovy  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/path/ObjectConverter.groovy  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/classpath/ClassPathResolver.java  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/assertion/EndToEndQuoteFragmentEscaper.groovy  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/common/mapper/TypeRef.java  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/common/mapper/factory/ObjectMapperFactory.java  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/assertion/AssertParameter.groovy  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/common/mapper/DataToDeserialize.java  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/internal/common/assertion/HyphenQuoteFragmentEscaper.groovy  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/common/mapper/ObjectDeserializationContext.java  
\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/common/exception/PathException.java  
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\* /opt/cola/permits/1331474266\_1653068588.304638/0/rest-assured-common-5-0-1-sources-jar/io/restassured/common/mapper/resolver/ObjectMapperResolver.java

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## 1.73 automation 1.11-8

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\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/BasicAutomata.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/TransitionComparator.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/DatatypesAutomatonProvider.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/Automaton.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/Datatypes.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/SpecialOperations.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/BasicOperations.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/StatePair.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/MinimizationOperations.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/State.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/ShuffleOperations.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/RunAutomaton.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-jar/dk/brics/automaton/RegExp.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/AutomatonProvider.java  
\* /opt/cola/permits/1162863214\_1620924489.9/0/automaton-1-11-8-sources-6-  
jar/dk/brics/automaton/Transition.java

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jar/dk/brics/automaton/AutomatonMatcher.java

## 1.74 slf4j-binding 2.17.2

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- \* /opt/cola/permits/1331473995\_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/LinuxDomainSocket.java
- \* /opt/cola/permits/1331473995\_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/FileDescriptor.java
- \* /opt/cola/permits/1331473995\_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/DomainSocket.java
- \* /opt/cola/permits/1331473995\_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/BsdDomainSocket.java
- \* /opt/cola/permits/1331473995\_1653068669.1105134/0/docker-java-transport-3-2-12-sources-jar/com/github/dockerjava/transport/AbstractSocket.java

## 1.77 micronaut-gcp 4.1.1

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- \* /opt/cola/permits/1331473977\_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-jar/io/micronaut/discovery/cloud/gcp/GoogleComputeMetadataKeys.java
- \* /opt/cola/permits/1331473977\_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-jar/io/micronaut/gcp/credentials/GoogleCredentialsConfiguration.java
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- \* /opt/cola/permits/1331473977\_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-jar/io/micronaut/gcp/UserAgentHeaderProvider.java
- \* /opt/cola/permits/1331473977\_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-jar/io/micronaut/gcp/condition/RequiresProjectIdCondition.java

\* /opt/cola/permits/1331473977\_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-jar/io/micronaut/discovery/cloud/gcp/package-info.java  
\* /opt/cola/permits/1331473977\_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-jar/io/micronaut/gcp/Modules.java  
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\* /opt/cola/permits/1331473977\_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-jar/io/micronaut/discovery/cloud/gcp/GoogleComputeInstanceMetadata.java  
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\* /opt/cola/permits/1331473977\_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-jar/io/micronaut/gcp/credentials/GoogleCredentialsFactory.java  
\* /opt/cola/permits/1331473977\_1653513089.549853/0/micronaut-gcp-common-4-1-1-sources-jar/io/micronaut/gcp/condition/RequiresGoogleProjectId.java

# 1.78 tagsoup 1.2.1

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\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/KtorApplicationBuilder.kt  
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\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/server/AbstractKtorEmbeddedServer.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/KtorRoutingBuilder.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/server/KtorTomcatEmbeddedServer.kt  
\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/env/MicronautKtorEnvironmentConfig.kt  
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\* /opt/cola/permits/1331473908\_1653514800.6790595/0/micronaut-ktor-3-2-2-sources-jar/io/micronaut/ktor/server/KtorJettyEmbeddedServer.kt

## 1.80 opentelemetry-java---

# io.opentelemetry:opentelemetry-sdk-metrics

## 1.12.0-alpha

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## 1.82 micronaut-r2dbc 2.1.0

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- \* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/package-info.java
- \* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/exception/DefaultMqttSubscriberExceptionHandler.java
- \* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/intercept/MqttPublisherState.java

\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/TopicMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/FallbackMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/Id.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/serdes/DefaultMqttPayloadSerDesRegistry.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/serdes/package-info.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/intercept/AbstractMqttIntroductionAdvice.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/Topics.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/AcknowledgeMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/intercept/AbstractMqttSubscriberAdvice.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/impl/DefaultMqttBinder.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/exception/MqttSubscriberExceptionHandler.java  
\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/bind/MqttBindingContext.java

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\* /opt/cola/permits/1331473884\_1653514363.4906576/0/micronaut-mqtt-core-2-1-0-sources-jar/io/micronaut/mqtt/annotation/Topic.java

# 1.86 io.grpc:grpc-bom 1.39.0

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\* /opt/cola/permits/1331473860\_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-jar/io/micronaut/configuration/mongo/core/convert/package-info.java  
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\* /opt/cola/permits/1331473860\_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-jar/io/micronaut/configuration/mongo/core/MongoSettings.java  
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\* /opt/cola/permits/1331473860\_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-jar/io/micronaut/configuration/mongo/core/DefaultMongoConfiguration.java  
\* /opt/cola/permits/1331473860\_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-jar/io/micronaut/configuration/mongo/core/NamedMongoConfiguration.java  
\* /opt/cola/permits/1331473860\_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-jar/io/micronaut/configuration/mongo/core/AbstractMongoConfiguration.java  
\* /opt/cola/permits/1331473860\_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-jar/io/micronaut/configuration/mongo/core/test/MongoProcessFactory.java  
\* /opt/cola/permits/1331473860\_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-jar/io/micronaut/configuration/mongo/core/DefaultMongoClientSettingsFactory.java  
\* /opt/cola/permits/1331473860\_1653514577.0135384/0/micronaut-mongo-core-4-1-0-sources-jar/io/micronaut/configuration/mongo/core/convert/StringToReadPreferenceConverter.java

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jar/io/micronaut/oraclecloud/clients/SdkClients.java
* /opt/cola/permits/1331474080_1653514413.2292626/0/micronaut-oraclecloud-sdk-2-1-1-sources-
jar/io/micronaut/oraclecloud/clients/SdkAutomaticFeature.java
* /opt/cola/permits/1331474080_1653514413.2292626/0/micronaut-oraclecloud-sdk-2-1-1-sources-
jar/io/micronaut/oraclecloud/clients/BouncyCastleFeature.java
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## 1.90 mockito 4.3.1

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# 1.93 micronaut-security 3.5.0

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\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/endpoints/ControllerConfiguration.java  
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\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509ConfigurationProperties.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/token/propagation/AbstractOutgoingRequestProcessorMatcher.java  
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\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/x509/X509Authentication.java

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\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/ServerAuthentication.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/authentication/AbstractPrincipalArgumentBinder.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-jar/io/micronaut/security/filters/SecurityFilterConfigurationProperties.java

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\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/endpoints/introspection/IntrospectionController.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/endpoints/introspection/IntrospectionResponse.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/config/RefreshRedirectConfiguration.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/token/propagation/HttpHeaderTokenPropagatorConfigurationProperties.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/errors/OauthErrorResponseException.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/rules/InterceptUrlMapRule.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/authentication/AuthenticationFailureReason.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/authentication/AuthenticationProvider.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/rules/package-info.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/token/validator/RefreshTokenValidator.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/authentication/AuthorizationException.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/errors/CookiePriorToLoginPersistence.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/config/ForbiddenRedirectConfiguration.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/config/RedirectConfigurationProperties.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/errors/OauthErrorResponseExceptionHandler.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/token/MapClaims.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/token/propagation/TokenPropagationHttpClientFilter.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/token/event/AccessTokenGeneratedEvent.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/event/TokenValidatedEvent.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/token/DefaultRolesFinder.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/config/UnauthorizedRedirectConfiguration.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-  
jar/io/micronaut/security/package-info.java  
\* /opt/cola/permits/1331474204\_1653068520.815044/0/micronaut-security-3-5-0-sources-

```

jar/io/micronaut/security/authentication/AuthenticationException.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/errors/ErrorResponse.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/AuthenticationModeConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/x509/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/RedirectConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthenticationExceptionHandler.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/AuthenticationArgumentBinder.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/CookieBasedAuthenticationModeCondition.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/package-info.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/TokenPropagationConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/LoginControllerConfigurationProperties.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/InterceptUrlMapPattern.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/authentication/ClientAuthentication.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/endpoints/LoginControllerConfiguration.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/event/LoginSuccessfulEvent.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/config/InterceptUrlMapConverter.java
* /opt/cola/permits/1331474204_1653068520.815044/0/micronaut-security-3-5-0-sources-
jar/io/micronaut/security/token/propagation/TokenPropagationConfiguration.java

```

## 1.94 jna 5.8.0

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=====  
Modified by Atlassian

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

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=====

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David Megginson, david@megginson.com  
2000-05-05

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The primary ANTLR guy:

Terence Parr  
parrt@cs.usfca.edu  
parrt@antlr.org

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File: Core.js

Description:

Provides common utility functions and the Class object used internally by the library.

Also provides the <TreeUtil> object for manipulating JSON tree structures

Some of the Basic utility functions and the Class system are based in the MooTools Framework <<http://mootools.net>>. Copyright (c) 2006-2009 Valerio Proietti, <<http://mad4milk.net/>>. MIT license <<http://mootools.net/license.txt>>.

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\* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/FlywayMigrator.java

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- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/GormMigrationRunner.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/endpoint/FlywayEndpoint.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/DataSourceMigrationRunner.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/event/SchemaCleanedEvent.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/graalvm/FeatureDetectorSubstitutions.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/endpoint/FlywayReport.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/AbstractFlywayMigration.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/event/MigrationFinishedEvent.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/graalvm/FlywayFeature.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/graalvm/ScannerSubstitutions.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/package-info.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/FlywayConfigurationProperties.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/graalvm/MicronautPathLocationScanner.java
- \* /opt/cola/permits/1331473697\_1653068637.3698914/0/micronaut-flyway-5-2-0-sources-jar/io/micronaut/flyway/AlternativeMigrationRunner.java

## 1.96 antlr 4.8-1

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```
tree grammar BlockSetTransformer;
options {
language    = Java;
tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
output     = AST;
filter    = true;
}

@header {
package organtlr.v4.parse;
import organtlr.v4.misc.Utils;
import organtlr.v4.misc.*;
import organtlr.v4.tool.*;
import organtlr.v4.tool.ast.*;
import java.util.List;
import java.util.Set;
import java.util.HashSet;
import java.util.ArrayList;
import organtlr.v4.runtime.misc.IntervalSet;
}

@members {
public String currentRuleName;
```

```

public GrammarAST currentAlt;
public Grammar g;
public BlockSetTransformer(TreeNodeStream input, Grammar g) {
    this(input, new RecognizerSharedState());
    this.g = g;
}
}

topdown
: ^(RULE (id=TOKEN_REF|id=RULE_REF) {currentRuleName=$id.text;} .+)
| setAlt
| ebnfBlockSet
| blockSet
;

setAlt
: {inContext("RULE BLOCK")}?
  ALT {currentAlt = $start;}
;

// (BLOCK (ALT (+ (BLOCK (ALT INT) (ALT ID))))))
ebnfBlockSet
@after {
    GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ^(ebnfSuffix blockSet) -> ^(ebnfSuffix ^(BLOCK<BlockAST> ^(ALT<AltAST> blockSet)))
;

ebnfSuffix
@after {$tree = (GrammarAST)adaptor.dupNode($start);}
: OPTIONAL
| CLOSURE
| POSITIVE_CLOSURE
;

blockSet
@init {
    boolean inLexer = Grammar.isTokenName(currentRuleName);
}
@after {
    GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: {inContext("RULE")}? // top-level: rule block and > 1 alt
  ^(BLOCK ^(alt=ALT elementOptions? {((AltAST)$alt).altLabel==null}? setElement[inLexer]) (^(ALT
elementOptions? setElement[inLexer]) )+
  -> ^(BLOCK<BlockAST>[$BLOCK.token] ^(ALT<AltAST>[$BLOCK.token,"ALT"] ^(SET[$BLOCK.token,
"SET"] setElement+)))
| {!inContext("RULE")}? // if not rule block and > 1 alt

```

```

^(BLOCK ^(ALT elementOptions? setElement[inLexer]) ( ^(ALT elementOptions? setElement[inLexer]) )+
-> ^(SET[$BLOCK.token, "SET"] setElement+)
;

setElement[boolean inLexer]
@after {
GrammarTransformPipeline.setGrammarPtr(g, $tree);
}
: ( ^(a=STRING_LITERAL elementOptions) {!inLexer ||
CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?
| a=STRING_LITERAL {!inLexer || CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 }?
| {!inLexer}?=> ^(TOKEN_REF elementOptions)
| {!inLexer}?=> TOKEN_REF
| {!inLexer}?=> ^(RANGE a=STRING_LITERAL b=STRING_LITERAL)
{CharSupport.getCharValueFromGrammarCharLiteral($a.getText())!=-1 &&
CharSupport.getCharValueFromGrammarCharLiteral($b.getText())!=-1 }?
)
;

```

```

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

```

```

elementOption
: ID
| ^(ASSIGN id=ID v=ID)
| ^(ASSIGN ID v=STRING_LITERAL)
| ^(ASSIGN ID v=ACTION)
| ^(ASSIGN ID v=INT)
;

```

Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/parse/BlockSetTransformer.g
```

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```
/*
```

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\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/OutputModelWalker.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/SerializedATN.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/gui/PostScriptDocument.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/GrammarASTWithOptions.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ToolMessage.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/LL1AltBlock.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/misc/EscapeSequenceParsing.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/Recognizer.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/MatchNotSet.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/LexerGrammar.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/Wildcard.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-

jar/org/antlr/v4/codegen/model/chunk/ActionText.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/automata/LexerATNFactory.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/decl/TokenTypeDecl.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/analysis/LeftRecursiveRuleAltInfo.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/Target.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/ast/GrammarASTVisitor.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/parse/GrammarToken.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/OutputModelController.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ErrorSeverity.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/gui/TestRig.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/VisitorDispatchMethod.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/DispatchMethod.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/RuleRefAST.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/StarBlock.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/GrammarSyntaxMessage.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/chunk/TokenRef.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/RangeAST.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/ArgAction.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/ANTLRToolListener.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/LabelElementPair.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/target/Python3Target.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/ExceptionClause.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/automata/TailEpsilonRemover.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_line.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ErrorType.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/gui/Trees.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/DOTGenerator.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/misc/OrderedHashMap.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-

jar/org/antlr/v4/codegen/model/Action.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/ListenerFile.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/LL1PlusBlockSingleAlt.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/dbg.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/chunk/SetNonLocalAttr.java  
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jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_ctx.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/misc/CharSupport.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/analysis/AnalysisPipeline.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/decl/ContextTokenGetterDecl.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/ANTLRMessage.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/misc/MutableInt.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/chunk/ActionTemplate.java  
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jar/org/antlr/v4/codegen/model/BaseListenerFile.java  
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\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/ModelElement.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/semantics/ActionSniffer.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/semantics/RuleCollector.java  
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jar/org/antlr/v4/codegen/model/decl/ContextGetterDecl.java  
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\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
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jar/org/antlr/v4/codegen/model/OutputModelObject.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ast/BlockAST.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/AttributeResolver.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/chunk/LabelRef.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ScopeParser.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/codegen/model/CodeBlockForAlt.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/ast/OptionalBlockAST.java

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/ErrorMessage.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef\_index.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/Parser.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/CodeGenerator.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/misc/Utils.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/chunk/TokenPropertyRef.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/gui/JFileChooserConfirmOverwrite.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/automata/ATNVisitor.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/decl/ContextTokenListIndexedGetterDecl.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/LL1OptionalBlock.java  
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\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/RuleActionFunction.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/LeftRecursiveRuleFunction.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/OutputFile.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/LL1Loop.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/MatchSet.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/Alternative.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/BlankOutputModelFactory.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/target/GoTarget.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/chunk/ThisRulePropertyRef\_stop.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/ThrowEarlyExitException.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/decl/RuleContextDecl.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/SemPred.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/LeftRecursiveRule.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef\_ctx.java  
\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/model/chunk/ActionChunk.java

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/SrcOp.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/codegen/model/chunk/RulePropertyRef_text.java
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/ast/PlusBlockAST.java
```

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.
*/
```

```
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) { }
/**
 * {@inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
<accessLevelOpenOK(file)> func exitEveryRule(_ ctx: ParserRuleContext) { }
/**
 * {@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:{Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
 * Visit a parse tree produced by the {@code <Iname>}

```

```

* labeled alternative in { @link <file.parserName>#<file.visitorLabelRuleNames.(Iname)>\}.
<else>
* Visit a parse tree produced by { @link <file.parserName>#<Iname>\}.
<endif>
- Parameters:
- ctx: the parse tree
- returns: the visitor result
*/
<accessLevelOpenOK(file)> func visit<Iname; format="cap">(_ ctx: <file.parserName>.<Iname;
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:{ Iname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation returns the result of calling
 * { @link #visitChildren\} on { @code ctx\}.\</p>
 */
<accessLevelOpenOK(file)> func visit<Iname; format="cap">(_ ctx: <file.parserName>.<Iname;
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)>
static let <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>

<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("4.8", 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
  var _parentState: Int = getState()
  var _localctx: <currentRule.ctxType> = <currentRule.ctxType>(_ctx, _parentState<currentRule.args: {a | ,
  <a.name>}>)
  var _prevctx: <currentRule.ctxType> = _localctx
  var _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:{1 | <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) ::= "predpred(<_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..<length {
      <! decisionToDFA[i] = DFA(<lexer.name>._ATN.getDecisionState(i)!, i);!>
      decisionToDFA.append(DFA(<lexer.name>._ATN.getDecisionState(i)!, i))
    }
    return decisionToDFA
  }

```

```
}()
```

```
internal static let _sharedContextCache = PredictionContextCache()
```

```
<accessLevelNotOpen(lexer)>
```

```
static let <lexer.tokens:{k | <k>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>
```

```
<if(lexer.channels)>
```

```
<accessLevelNotOpen(lexer)>
```

```
static let <lexer.channels:{k | <k>=<lexer.channels.(k)>}; separator=", ", wrap, anchor>
```

```
<endif>
```

```
<if(rest(lexer.modes))>
```

```
<accessLevelNotOpen(lexer)>
```

```
static let <rest(lexer.modes):{m | <m>=<i>}; separator=", ", wrap, anchor>
```

```
<endif>
```

```
<accessLevelNotOpen(lexer)>
```

```
static let channelNames: [String] = [
```

```
  "DEFAULT_TOKEN_CHANNEL", "HIDDEN" <if (lexer.channels)>, <lexer.channels:{c | "<c>"}; separator=", ", wrap, anchor><endif>
```

```
]
```

```
<accessLevelNotOpen(lexer)>
```

```
static let modeNames: [String] = [
```

```
  <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor>
```

```
]
```

```
<accessLevelNotOpen(lexer)>
```

```
static let ruleNames: [String] = [
```

```
  <lexer.ruleNames:{r | "<r>"}; separator=", ", wrap, anchor>
```

```
]
```

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

```
<namedActions.members>
```

```
override <accessLevelOpenOK(lexer)>
```

```
func getVocabulary() -> Vocabulary {
```

```
  return <lexer.name>.VOCABULARY
```

```
}
```

```
<accessLevelNotOpen(lexer)>
```

```
required init(_ input: CharStream) {
```

```
  RuntimeMetaData.checkVersion("<lexerFile.ANTLRVersion>", RuntimeMetaData.VERSION)
```

```
  super.init(input)
```

```
  _interp = LexerATNSimulator(self, <lexer.name>._ATN, <lexer.name>._decisionToDFA,
```

```
  <lexer.name>._sharedContextCache)
```

```
}
```

```

override <accessLevelOpenOK(lexer)>
func getGrammarFileName() -> String { return "<lexer.grammarFileName>" }

override <accessLevelOpenOK(lexer)>
func getRuleNames() -> [String] { return <lexer.name>.ruleNames }

override <accessLevelOpenOK(lexer)>
func getSerializedATN() -> 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):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/templates/codegen/Swift/Swift.stg
```

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

```
/*
```

```
[The "BSD 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):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/templates/messages/formats/vs2005.stg
```

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

```
/*
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 * Copyright (c) 2012-2016 Sam Harwell
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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 ebnfRoot] returns [List<? extends SrcOp> omos]
: ^( blk=BLOCK ^(OPTIONS .+)?
{List<CodeBlockForAlt> alts = new ArrayList<CodeBlockForAlt>();}
( alternative {alts.add($alternative.altCodeBlock);} )+
)
{
if ( alts.size()==1 && ebnfRoot==null) return alts;
if ( ebnfRoot==null ) {
Somos = DefaultOutputModelFactory.list(controller.getChoiceBlock((BlockAST)$blk, alts, $label));
}
else {
Choice choice = controller.getEBNFBlock($ebnfRoot, alts);
hasLookaheadBlock |= choice instanceof PlusBlock || choice instanceof StarBlock;
Somos = 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):

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/codegen/SourceGenTriggers.g

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Found in path(s):

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/META-INF/maven/org.antlr/antlr4/pom.xml

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```
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*/
```

```
/** ANTLR tool checks output templates are compatible with tool code generation.
```

```
* For now, a simple string match used on x.y of x.y.z scheme.
```

```
* Must match Tool.VERSION during load to templates.
```

```
*
```

```
* REQUIRED.
```

```
*/
```

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

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

```
ParserFile(file, parser, namedActions, contextSuperClass) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
# encoding: utf-8
```

```
from __future__ import print_function
```

```
from antlr4 import *
```

```
from io import StringIO
```

```
import sys
```

```
<namedActions.header>
```

```
<parser>
```

```
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
from antlr4 import *
```

```
<header>
```

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

```
class <file.grammarName>Listener(ParseTreeListener):
```

```
    <file.listenerNames>: { Iname |
```

```
# Enter a parse tree produced by <file.parserName>#<Iname>.
```

```
def enter<Iname>(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> ]

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

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="\n1">
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="\n1">
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="\n"|>
    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:{1 | <labelref(1)> =
}><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:{1 | <labelref(1)> = }><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:{1 | <labelref(1)> = }>self._input.LT(1)<endif>
<capture>
<if(invert)>if <m.varName> \<= 0 or <expr><else>if not(<expr><endif>:
<if(m.labels)><m.labels:{1 | <labelref(1)> = }><else> <endif>self._errHandler.recoverInline(self)
else:
self._errHandler.reportMatch(self)

```

```

    self.consume()
>>

Wildcard(w) ::= <<
self.state = <w.stateNumber>
<if(w.labels)><w.labels:{1 | <labelref(1)> = }><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) ::= <<
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) ::= "(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) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "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>
```

```
    <lexer.tokens:{k| <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>
```

```
    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):
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Python2/Python2.stg
No license file was found, but licenses were detected in source scan.

/*

```

```

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*/

```

```

/** The definitive ANTLR v3 tree grammar to walk/visit ANTLR v4 grammars.

```

```

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

```

```

tree grammar GrammarTreeVisitor;
options {
language    = Java;
tokenVocab = ANTLRParser;
ASTLabelType = GrammarAST;
}

```

```

// Include the copyright in this source and also the generated source
@header {

```

/\*

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\*/

```
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):

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-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):

```

```

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/LeftRecursiveRules.stg

```

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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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Copyright (c) 2005-2009 Terence Parr
All rights reserved.

```

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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

```

: '['
( '\\ ~(\'r\'\'n)
| ~(\'r\'\'n\'\\\'')
)*
']'
;

```



```

// -----
// Argument specs
//
// Certain argument lists, such as those specifying call parameters
// to a rule invocation, or input parameters to a rule specification
// are contained within square brackets. In the lexer we consume them
// all at once and sort them out later in the grammar analysis.
//
fragment
ARG_ACTION
: '['
  (
    ARG_ACTION

    | ("")=>ACTION_STRING_LITERAL

    | ("\")=>ACTION_CHAR_LITERAL

    | ~('[\']')
  )*
  ']'
;

// -----
// Actions
//
// Other than making sure to distinguish between { and } embedded
// within what we have assumed to be literals in the action code, the
// job of the lexer is merely to gather the code within the action
// (delimited by {}) and pass it to the parser as a single token.
// We know that this token will be asked for its text somewhere
// in the upcoming parse, so setting the text here to exclude
// the delimiting {} is no additional overhead.
//
ACTION
: NESTED_ACTION
( '?' {$type = SEMPRED;}
( (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-\uEFFFF] ;

// -----
// Literals embedded in actions
//
// Note that we have made the assumption that the language used within
// actions uses the fairly standard " and ' delimiters for literals and
// that within these literals, characters are escaped using the \ character.
// There are some languages which do not conform to this in all cases, such
// as by using /string/ and so on. We will have to deal with such cases if
// if they come up in targets.
//
// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal characters. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically. While this rule is called CHAR it allows for the fact that
// some languages may use/allow ' as the string delimiter.
//
fragment
ACTION_CHAR_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~"")* "\""
;

// Within actions, or other structures that are not part of the ANTLR
// syntax, we may encounter literal strings. Within these, we do
// not want to inadvertently match things like '}' and so we eat them
// specifically.
//
fragment
ACTION_STRING_LITERAL
: "\"" ((\\)=>ACTION_ESC | ~"")* "\""
;

// Within literal strings and characters that are not part of the ANTLR
// syntax, we must allow for escaped character sequences so that we do not
// inadvertently recognize the end of a string or character when the terminating

```

```

// delimiter has been escaped.
//
fragment
ACTION_ESC
: '\\' .
;

// -----
// Integer
//
// Obviously (I hope) match an arbitrary long sequence of digits.
//
INT : ('0'..'9')+
;

// -----
// Source spec
//
// A fragment rule for picking up information about an originating
// file from which the grammar we are parsing has been generated. This allows
// ANTLR to report errors against the originating file and not the generated
// file.
//
fragment
SRC : 'src' WSCHARS+ file=ACTION_STRING_LITERAL WSCHARS+ line=INT
{
    // TODO: Add target specific code to change the source file name and current line number
}
;

// -----
// Literal string
//
// ANTLR makes no distinction between a single character literal and a
// multi-character string. All literals are single quote delimited and
// may contain unicode escape sequences of the form \uxxxx or \u{xxxxxx},
// where x is a valid hexadecimal number.
STRING_LITERAL
: '\" ( ( ESC_SEQ | ~(\"|'\"|'r'|'n') ) ) *
( '\"
| // Unterminated string literal
{
    Token t = new CommonToken(input, state.type, state.channel, state.tokenStartCharIndex, getCharIndex()-1);
    t.setLine(state.tokenStartLine);
    t.setText(state.text);
    t.setCharacterPositionInLine(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 gramamr 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):

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.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: {Iname |
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void enter<Iname; format="cap">(<file.parserName>.<Iname; format="cap">Context ctx) { \}
/**
 * { @inheritDoc\}
 *
 * \<p>The default implementation does nothing.\</p>
 */
    @Override public void exit<Iname; format="cap">(<file.parserName>.<Iname; 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:{Iname |
/**
* { @inheritDoc\}
*
* \<p>The default implementation returns the result of calling
* { @link #visitChildren\} on { @code ctx\}.\</p>
*/
    @Override public T visit<Iname; format="cap">(<file.parserName>.<Iname; 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>
    public static final int
        <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
    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:{1 | <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:{1 | <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:{1 | <labelref(l)> = }>>_input.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif><expr> ) {
  <if(m.labels)><m.labels:{1 | <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:{1 | <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):

```

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-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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 * 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.
 */

```

```

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:{Iname |
/**
<if(file.visitorLabelRuleNames.(Iname))>
* Visit a parse tree produced by the `<Iname>` labeled alternative
* in {@see <file.parserName>::<file.visitorLabelRuleNames.(Iname)>()}.
<else>
* Visit a parse tree produced by {@see <file.parserName>::<Iname>()}.
<endif>
*
* @param Context\<Iname; format="cap">Context $context The parse tree.
*
* @return mixed The visitor result.

```

```

*/
public function visit<Iname; format="cap">(Context\\<Iname; 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:{ Iname |
/**
 * { @inheritdoc }
 *
 * The default implementation returns the result of calling
 * { @see self::visitChildren() } on `context`.
 */
public function visit<Iname; format="cap">(Context\\<Iname; 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>

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

/**
 * @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);
}
<if(funcs)>

```



```

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

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

    default:
        return true;
    }
}

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

namespace <if(file.genPackage)><file.genPackage>\\<endif>Context {
    use Antlr\\Antlr4\\Runtime\\ParserRuleContext;
    use Antlr\\Antlr4\\Runtime\\Token;
    use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeVisitor;
    use Antlr\\Antlr4\\Runtime\\Tree\\TerminalNode;
    use Antlr\\Antlr4\\Runtime\\Tree\\ParseTreeListener;
    use <if(file.genPackage)><file.genPackage>\\<endif><parser.name>;
    <if (file.genVisitor)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Visitor;<endif>
    <if (file.genListener)>use <if(file.genPackage)><file.genPackage>\\<endif><file.grammarName>Listener;<endif>
    <namedActions.contexts>

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

<func.altLabelCtxs:{1 | <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">(Context\<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\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) ::= <<
<types:{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) ::= <<

```

```

$this->setState(<w.stateNumber>);
<if(w.labels)><w.labels:{1 | <labelref(1)> = }><endif>$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><(!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 Antlr\\Antlr4\\Runtime\\CharStream;
use Antlr\\Antlr4\\Runtime\\PredictionContexts\\PredictionContextCache;
use Antlr\\Antlr4\\Runtime\\RuleContext;
use Antlr\\Antlr4\\Runtime\\Atn\\ATN;
use Antlr\\Antlr4\\Runtime\\Dfa\\DFA;
use Antlr\\Antlr4\\Runtime\\Vocabulary;
use Antlr\\Antlr4\\Runtime\\RuntimeMetaData;
use Antlr\\Antlr4\\Runtime\\VocabularyImpl;
<if(namedActions.definitions)><namedActions.definitions><endif>

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

<if(lexer.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):

```

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/codegen/PHP/PHP.stg

```

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Found in path(s):

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/gui/GraphicsSupport.java

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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):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/messages/formats/gnu.stg
```

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```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-  
jar/org/antlr/v4/tool/templates/codegen/Cpp/Files.stg
```

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```

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```

```
*/
```

```
/** Find left-recursive rules */
```

```
tree grammar LeftRecursiveRuleWalker;
```

```
options {
```

```
  tokenVocab=ANTLRParser;
```

```
  ASTLabelType=GrammarAST;
```

```
}
```

```
@header {
```

```
package org.antlr.v4.parse;
```

```
import org.antlr.v4.misc.*;
```

```
import org.antlr.v4.tool.*;
```

```

import org.antlr.v4.tool.ast.*;
}

@members {
private String ruleName;
private int currentOuterAltNumber; // which outer alt of rule?
public int numAlts; // how many alts for this rule total?

public void setAltAssoc(AltAST altTree, int alt) {}
public void binaryAlt(AltAST altTree, int alt) {}
public void prefixAlt(AltAST altTree, int alt) {}
public void suffixAlt(AltAST altTree, int alt) {}
public void otherAlt(AltAST altTree, int alt) {}
public void setReturnValues(GrammarAST t) {}
}

@rulecatch { }

// TODO: can get parser errors for not matching pattern; make them go away
public
rec_rule returns [boolean isLeftRec]
@init
{
currentOuterAltNumber = 1;
}
: ^( r=RULE id=RULE_REF {ruleName=$id.getText();}
ruleModifier?
// (ARG_ACTION)? shouldn't allow args, right?
^(RETURNS a=ARG_ACTION {setReturnValues($a;)}))?
// (^(THROWS .+)? don't allow
(^(LOCALS ARG_ACTION) )? // TODO: copy these to gen'd code
(^(OPTIONS .*)
| ^(AT ID ACTION) // TODO: copy
)*
ruleBlock { $isLeftRec = $ruleBlock.isLeftRec;}
exceptionGroup
)
;

exceptionGroup
: exceptionHandler* finallyClause?
;

exceptionHandler
: ^(CATCH ARG_ACTION ACTION)
;

finallyClause

```



```
: ^(FINALLY ACTION)
```

```
;
```

```
ruleModifier
```

```
: PUBLIC
```

```
| PRIVATE
```

```
| PROTECTED
```

```
;
```

```
ruleBlock returns [boolean isLeftRec]
```

```
@init{boolean lr=false; this.numAlts = $start.getChildCount();}
```

```
: ^( BLOCK
```

```
(
```

```
o=outerAlternative
```

```
{if ($o.isLeftRec) $isLeftRec = true;}
```

```
{currentOuterAltNumber++;}
```

```
)+
```

```
)
```

```
;
```

```
/** An alt is either prefix, suffix, binary, or ternary operation or "other" */
```

```
outerAlternative returns [boolean isLeftRec]
```

```
: (binary)=> binary
```

```
{binaryAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
```

```
| (prefix)=> prefix
```

```
{prefixAlt((AltAST)$start, currentOuterAltNumber);}
```

```
| (suffix)=> suffix
```

```
{suffixAlt((AltAST)$start, currentOuterAltNumber); $isLeftRec=true;}
```

```
| nonLeftRecur {otherAlt((AltAST)$start, currentOuterAltNumber);}
```

```
;
```

```
binary
```

```
: ^( ALT elementOptions? recurse element* recurse epsilonElement* )
```

```
{setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
```

```
;
```

```
prefix
```

```
: ^( ALT elementOptions?
```

```
element+
```

```
recurse epsilonElement*
```

```
)
```

```
{setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
```

```
;
```

```
suffix
```

```
: ^( ALT elementOptions? recurse element+ )
```

```
{setAltAssoc((AltAST)$ALT,currentOuterAltNumber);}
```

```
;
```

```

nonLeftRecur
: ^(ALT elementOptions? element+)
;

recurse
: ^(ASSIGN ID recurseNoLabel)
| ^(PLUS_ASSIGN ID recurseNoLabel)
| recurseNoLabel
;

recurseNoLabel : {((CommonTree)input.LT(1)).getText().equals(ruleName)}? RULE_REF;

token returns [GrammarAST t=null]
: ^(ASSIGN ID s=token {$t = $s.t;})
| ^(PLUS_ASSIGN ID s=token {$t = $s.t;})
| b=STRING_LITERAL    {$t = $b;}
| ^(b=STRING_LITERAL elementOptions) {$t = $b;}
| ^(c=TOKEN_REF elementOptions) {$t = $c;}
| c=TOKEN_REF        {$t = $c;}
;

elementOptions
: ^(ELEMENT_OPTIONS elementOption*)
;

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

element
: atom
| ^(NOT element)
| ^(RANGE atom atom)
| ^(ASSIGN ID element)
| ^(PLUS_ASSIGN ID element)
| ^(SET setElement+)
| RULE_REF
| ebnf
| epsilonElement
;

epsilonElement
: ACTION

```

```
| SEMPRED
| EPSILON
| ^(ACTION elementOptions)
| ^(SEMPRED elementOptions)
;
```

```
setElement
: ^(STRING_LITERAL elementOptions)
| ^(TOKEN_REF elementOptions)
| STRING_LITERAL
| TOKEN_REF
;
```

```
ebnf: block
| ^( OPTIONAL block )
| ^( CLOSURE block )
| ^( POSITIVE_CLOSURE block )
;
```

```
block
: ^(BLOCK ACTION? alternative+)
;
```

```
alternative
: ^(ALT elementOptions? element+)
;
```

```
atom
: ^(RULE_REF ARG_ACTION? elementOptions?)
| ^(STRING_LITERAL elementOptions)
| STRING_LITERAL
| ^(TOKEN_REF elementOptions)
| TOKEN_REF
| ^(WILDCARD elementOptions)
| WILDCARD
| ^(DOT ID element)
;
```

Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/parse/LeftRecursiveRuleWalker.g
```

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jar/org/antlr/v4/tool/templates/codegen/Cpp/Cpp.stg

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 \*/

```
atn(startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph ATN {
rankdir=LR;
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
dfa(name, startState, states, edges, rankdir, decisionRanks, useBox) ::= <<
digraph <name> {
<if(rankdir)>rankdir=<rankdir>;<endif>
<decisionRanks; separator="\n">
<states; separator="\n">
<edges; separator="\n">
}
>>
```

```
decision-rank(states) ::= <<
{rank=same; rankdir=TB; <states:{s | s<s>}; separator=" "; ">}
>>
```

```
edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>
```

```
action-edge(src,target,label,arrowhead,transitionIndex) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontsize=11, fontname="Courier", arrowsize=.7,
label = "<label>"<if(arrowhead)>, arrowhead = <arrowhead><endif>];
>>
```

```
epsilon-edge(src,label,target,arrowhead,transitionIndex,loopback=false) ::= <<
<src><if(transitionIndex)>:p<transitionIndex><endif> -> <target> [fontname="Times-Italic",
label="&epsilon;"<if(loopback)>, style="dashed"<endif>];
>>
```

```

state(state, label, name, transitions) ::= <%
<name>[fontsize=11,
  label="
    <! rest(transition) tests for decision states: these nodes have a non-empty set of transitions after the first one. !>
    <if(rest(transitions))>
      {
        <! Label on the left side of the record node. !>
        <label>
        |
        <! Named ports in order on right side of record node, no display text. !>
        {<transitions:{t|\<p<i0>>}; separator="|">}}
      <else>
        <label>
      <endif>
    "
  <if(rest(transitions))>
    , shape=record, fixedsize=false
  <else>
    , shape=circle, fixedsize=true, width=.55
  <endif>
  , peripheries=1];
%>

```

```

stopstate(name,label,actionIndex,useBox) ::= <<
<name>[fontsize=11, label="<label><if(actionIndex)>,\naction:<actionIndex><endif>",
<if(useBox)>shape=polygon,sides=4,peripheries=2,fixedsize=false<else>shape=doublecircle, fixedsize=true,
width=.6<endif>];
>>

```

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```

* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/dot/graphs.stg

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\*/

/\*

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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):

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/templates/messages/formats/antlr.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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```

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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):

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ATNBuilder.g

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```

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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.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> { Iname |
    /// \<summary>
    <if(file.visitorLabelRuleNames.(Iname))>
    /// Visit a parse tree produced by the \<c><Iname>\</c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>">.
    <else>
    /// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>">.
    <endif>
    /// \</summary>
    /// \<param name="context">The parse tree.\</param>
    /// \<return>The visitor result.\</return>
    Result Visit<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname; 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.CLSCompliant(false)]
public partial class <file.grammarName>BaseVisitor<Result> : AbstractParseTreeVisitor<Result>,
I<file.grammarName>Visitor<Result> {
    <file.visitorNames> { Iname |
    /// \<summary>
    <if(file.visitorLabelRuleNames.(Iname))>
    /// Visit a parse tree produced by the \<c><Iname>\</c>
    /// labeled alternative in \<see cref="<file.parserName>.<file.visitorLabelRuleNames.(Iname)>">.
    <else>

```



```

/// Visit a parse tree produced by \<see cref="<file.parserName>.<Iname>"/>.
<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<Iname; format="cap">([NotNull] <csIdentifier.(file.parserName)>.<Iname;
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>
    public const int
    <parser.rules:{r | RULE_<r.name> = <r.index>}; separator=", ", wrap, anchor>;
    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) ::= <<
<types:{t | case <tokenType.(t)>}; separator="\n">
>>

InvokeRule(r, argExprsChunks) ::= <<
State = <r.stateNumber>; <if(r.labels)><r.labels:{1 | <labelref(l)> =
}><endif><csIdentifier.(r.name)><(r.ast.options.p)><r.ast.options.p><if(argExprsChunks)><endif><endif><arg
ExprsChunks>;
>>

MatchToken(m) ::= <<
State = <m.stateNumber>; <if(m.labels)><m.labels:{1 | <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:{1 | <labelref(l)> = }>TokenStream.LT(1);<endif>
<capture>
if ( <if(invert)><m.varName> \<= 0 || <else>!<endif><expr> ) {
  <if(m.labels)><m.labels:{1 | <labelref(l)> = }><endif>ErrorHandler.RecoverInline(this);
}
else {
  ErrorHandler.ReportMatch(this);
  Consume();
}
>>

Wildcard(w) ::= <<
State = <w.stateNumber>;
<if(w.labels)><w.labels:{1 | <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) ::=
"public ITerminalNode <csIdentifier.(tokenType.(t.name))>() { return
GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, 0); }"
ContextTokenListGetterDecl(t) ::= <<
public <contextGetterCollection("ITerminalNode")> <csIdentifier.(tokenType.(t.name))>() { return
GetTokens(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>); }
>>

```

```

ContextTokenListIndexedGetterDecl(t) ::= <<
public ITerminalNode <csIdentifier.(tokenType.(t.name))>(int i) {
    return GetToken(<csIdentifier.(parser.name)>.<csIdentifier.(tokenType.(t.name))>, i);
}
>>

ContextRuleGetterDecl(r) ::= <<
public <r.ctxName> <csIdentifier.(r.name)>() {
    return GetRuleContext\<<r.ctxName>\>(0);
}
>>

ContextRuleListGetterDecl(r) ::= <<
public <contextGetterCollection({<r.ctxName>})> <csIdentifier.(r.name)>() {
    return GetRuleContexts\<<r.ctxName>\>();
}
>>

ContextRuleListIndexedGetterDecl(r) ::= <<
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) ::= <<
public override void <if(method.isEnter)>Enter<else>Exit<endif>Rule(IParseTreeListener listener) {
    I<parser.grammarName>Listener typedListener = listener as I<parser.grammarName>Listener;
    if (typedListener != null) typedListener.<if(method.isEnter)>Enter<else>Exit<endif><struct.derivedFromName;
format="cap">(this);
}
>>

```

```

VisitorDispatchMethod(method) ::= <<
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();
public const int
<lexer.tokens:{k | <tokenType.(k)>=<lexer.tokens.(k)>}; separator=", ", wrap, anchor>;
<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):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/templates/codegen/CSharp/CSharp.stg
```

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```
/*
```

```
[The "BSD licence"]
```

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```

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```

```
*/
```

Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ANTLRLexer.java
```

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/*
```

```
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```

```
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```
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\*/

Found in path(s):

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-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')+
;
```

Found in path(s):

\* /opt/cola/permits/1192255793\_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ActionSplitter.g

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 * THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
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 * THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
 */

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

\* REQUIRED.

\*/

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

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

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

```
# encoding: utf-8
```

```
from antlr4 import *
```

```
from io import StringIO
```

```
import sys
```

```
if sys.version_info[1] > 5:
```

```
    from typing import TextIO
```

```
else:
```

```
    from typing.io import TextIO
```

```
<namedActions.header>
```

```
<parser>
```

```
>>
```

```
ListenerFile(file, header, namedActions) ::= <<
```

```
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
```

```
from antlr4 import *
```

```
if __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>: {Iname |
```

```
    # Enter a parse tree produced by <file.parserName>#<Iname>.
```

```
    def enter<Iname; format="cap">(self, ctx:<file.parserName>.<Iname; format="cap">Context):
```

```
        pass
```

```
    # Exit a parse tree produced by <file.parserName>#<Iname>.
```

```
    def exit<Iname; format="cap">(self, ctx:<file.parserName>.<Iname; 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> ]

<parser.rules:{r | RULE\_<r.name> = <r.index>}; separator="\n", wrap, anchor>

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(sembredFuncs)>

def sembred(self, localctx:RuleContext, ruleIndex:int, predIndex:int):

if self.\_predicates == None:

self.\_predicates = dict()

<parser.sembredFuncs.values:{f |

self.\_predicates[<f.ruleIndex>] = self.<f.name>\_sembred}; 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)

<sembredFuncs.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.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="\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="\nел">
  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:{1 | <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:{1 | <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:{1 | <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:{1 | <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:{1 | <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) ::= <<
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>"

```

```

QRetValueRef(a) ::= "<ctx(a)>.<a.dict>.<a.name>"
/** How to translate $tokenLabel */
TokenRef(t) ::= "<ctx(t)>.<t.name>"
LabelRef(t) ::= "<ctx(t)>.<t.name>"
ListLabelRef(t) ::= "<ctx(t)>.<ListLabelName(t.name)>"
SetAttr(s,rhsChunks) ::= "<ctx(s)>.<s.name> = <rhsChunks>"

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

TokenPropertyRef_text(t) ::= "(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) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
SetNonLocalAttr(s, rhsChunks) ::= "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>):
```

```
    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
from typing.io import TextIO
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>

```

```

    <lexer.tokens: {k | <k> = <lexer.tokens.(k)>}; separator="\n", wrap, anchor>

```

```

    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):
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/codegen/Python3/Python3.stg

```

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Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/parse/ANTLRParser.g
```

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```
/*
```

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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.
*/

```

```

/** 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)>
var antlr4 = require('antlr4/index');
<if(file.genListener)>
var <file.grammarName>Listener = require('./<file.grammarName>Listener').<file.grammarName>Listener;
<endif>
<if(file.genVisitor)>
var <file.grammarName>Visitor = require('./<file.grammarName>Visitor').<file.grammarName>Visitor;
<endif>

<namedActions.header>
<parser>
>>

```

```

ListenerFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

```

```

// This class defines a complete listener for a parse tree produced by <file.parserName>.
function <file.grammarName>Listener() {
  antlr4.tree.ParseTreeListener.call(this);
  return this;
}

<file.grammarName>Listener.prototype = Object.create(antlr4.tree.ParseTreeListener.prototype);
<file.grammarName>Listener.prototype.constructor = <file.grammarName>Listener;

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

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

}; separator="\n">

exports.<file.grammarName>Listener = <file.grammarName>Listener;
>>

```

```

VisitorFile(file, header, namedActions) ::= <<
<fileHeader(file.grammarFileName, file.ANTLRVersion)>
var antlr4 = require('antlr4/index');

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

function <file.grammarName>Visitor() {
  antlr4.tree.ParseTreeVisitor.call(this);
  return this;
}

<file.grammarName>Visitor.prototype = Object.create(antlr4.tree.ParseTreeVisitor.prototype);
<file.grammarName>Visitor.prototype.constructor = <file.grammarName>Visitor;

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

}; separator="\n">

exports.<file.grammarName>Visitor = <file.grammarName>Visitor;

```

>>

```
fileHeader(grammarFileName, ANTLRVersion) ::= <<  
// Generated from <grammarFileName; format="java-escape"> by ANTLR <ANTLRVersion>  
// jshint ignore: start  
>>
```

```
Parser(parser, funcs, atn, sempredFuncs, superClass) ::= <<  
<if(superClass)>  
var <superClass> = require('./<superClass>').<superClass>;  
<endif>
```

```
var grammarFileName = "<parser.grammarFileName; format="java-escape">";
```

```
<atn>
```

```
var atn = new antlr4.atn.ATNDeserializer().deserialize(serializedATN);
```

```
var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });
```

```
var sharedContextCache = new antlr4.PredictionContextCache();
```

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

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

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

```
function <parser.name> (input) {  
  <superClass; null="antlr4.Parser">.call(this, input);  
  this._interp = new antlr4.atn.ParserATNSimulator(this, atn, decisionsToDFA, sharedContextCache);  
  this.ruleNames = ruleNames;  
  this.literalNames = literalNames;  
  this.symbolicNames = symbolicNames;  
  <namedActions.members>  
  return this;  
}
```

```
<parser.name>.prototype = Object.create(<superClass; null="antlr4.Parser">.prototype);
```

```
<parser.name>.prototype.constructor = <parser.name>;
```

```
Object.defineProperty(<parser.name>.prototype, "atn", {  
  get : function() {  
    return atn;  
  }  
});
```

```

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

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

<funcs; separator="\n">

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

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

exports.<parser.name> = <parser.name>;

>>

dumpActions(recog, argFuncs, actionFuncs, semanticPredFuncs) ::= <<
<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(semanticPredFuncs)>
<lexer.name>.prototype.semanticPred = function(localctx, ruleIndex, predIndex) {
switch (ruleIndex) {
<recog.semanticPredFuncs.values:{f} case <f.ruleIndex>:
return this.<f.name>_semanticPred(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><else><parser.name><endif>.prototype.<r.name>_sempred = function(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)
::= <<

<ruleCtx>

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

```



```

<! Define fields of this parser to export the context classes !>
<parser.name>.<currentRule.ctxType> = <currentRule.ctxType>;

<parser.name>.prototype.<currentRule.name> = function(<currentRule.args:{ a | <a.name>}; separator=", ">) {

    var 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) ::=

```

```
<<
```

```
<ruleCtx>
```

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

```

<parser.name>.prototype.<currentRule.name> = function(_p<if(currentRule.args)>, <args:{ a | , <a>}><endif>) {
    if(_p===undefined) {
        _p = 0;
    }
    var _parentctx = this._ctx;
    var _parentState = this.state;
    var localctx = new <currentRule.ctxType>(this, this._ctx, _parentState<args:{ a | , <a.name>}>);
    var _prevctx = localctx;

```

```

var _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) ::= <<
<ttypes:{ 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) ::= "getInvokingContext(<s.ruleIndex>).<s.name>"
```

```
SetNonLocalAttr(s, rhsChunks) ::= "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> = function() {
```

```
    return this.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) ::= <<
```

```
<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> = function() {
    return this.getTypedRuleContext(<r.ctxName>,0);
};
>>

// should never be called
ContextRuleListGetterDecl(r) ::= <<
def <r.name>_list(self):
    return self.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) ::= <<
function <struct.name>(parser, parent, invokingState<struct.ctorAttrs:{a | , <a.name>}>) {
    if(parent===undefined) {

```

```

    parent = null;
  }
  if(invokingState===undefined || invokingState===null) {
    invokingState = -1;
  }
  <if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.call(this, 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">
  return this;
}

<struct.name>.prototype =
Object.create(<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype);
<struct.name>.prototype.constructor = <struct.name>;

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">

<if(struct.provideCopyFrom)> <! don't need copy unless we have subclasses !>
<struct.name>.prototype.copyFrom = function(ctx) {
<if(contextSuperClass)><contextSuperClass><else>antlr4.ParserRuleContext<endif>.prototype.copyFrom.call(this,
ctx);
  <struct.attrs:{a | this.<a.name> = ctx.<a.name>}; separator="\n">
};
<endif>
<dispatchMethods; separator="\n">
<extensionMembers; separator="\n">

>>

AltLabelStructDecl(struct,attrs,getters,dispatchMethods) ::= <<
function <struct.name>(parser, ctx) {
  <currentRule.name; format="cap">Context.call(this, parser);
  <attrs:{a | <a>}; separator="\n">
  <currentRule.name; format="cap">Context.prototype.copyFrom.call(this, ctx);
  return this;
}

<struct.name>.prototype = Object.create(<currentRule.name; format="cap">Context.prototype);
<struct.name>.prototype.constructor = <struct.name>;

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

<getters:{g | <struct.name>.prototype.<g>}; separator="\n\n">
<dispatchMethods; separator="\n">

```

>>

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

>>

```
VisitorDispatchMethod(method) ::= <<
<struct.name>.prototype.accept = function(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)>
var antlr4 = require('antlr4/index');

<namedActions.header>

<lexer>

>>

Lexer(lexer, atn, actionFuncs, sempredFuncs, superClass) ::= <<
<if(superClass)>
var <superClass> = require('./<superClass>').<superClass>;
<endif>

<atn>

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

var decisionsToDFA = atn.decisionToState.map( function(ds, index) { return new antlr4.dfa.DFA(ds, index); });

function <lexer.name>(input) {
    <if(superClass)><superClass><else>antlr4.Lexer<endif>.call(this, input);
    this._interp = new antlr4.atn.LexerATNSimulator(this, atn, decisionsToDFA, new
antlr4.PredictionContextCache());
    <namedActions.members>
    return this;
}

```

```

}

<lexer.name>.prototype = Object.create(<if(superClass)><superClass><else>antlr4.Lexer<endif>.prototype);
<lexer.name>.prototype.constructor = <lexer.name>;

Object.defineProperty(<lexer.name>.prototype, "atn", {
    get : function() {
        return atn;
    }
});

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

<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>
<lexer.name>.prototype.channelNames = [ "DEFAULT_TOKEN_CHANNEL", "HIDDEN"<if (lexer.channels)>,
<lexer.channels:{c | "<c>"}; separator=", ", wrap, anchor><endif> ];

<lexer.name>.prototype.modeNames = [ <lexer.modes:{m | "<m>"}; separator=", ", wrap, anchor> ];

<lexer.name>.prototype.literalNames = [ <lexer.literalNames:{t | <t>}; null="null", separator=", ", wrap, anchor> ];

<lexer.name>.prototype.symbolicNames = [ <lexer.symbolicNames:{t | <t>}; null="null", separator=", ", wrap,
anchor> ];

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

<lexer.name>.prototype.grammarFileName = "<lexer.grammarFileName>";

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

exports.<lexer.name> = <lexer.name>;

>>

SerializedATN(model) ::= <<
<! only one segment, can be inlined !>

var 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) ::= <<
<javacriptTypeInitMap.(typeName)>
>>
```

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

Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-
jar/org/antlr/v4/tool/templates/codegen/JavaScript/JavaScript.stg
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 */
```

```
/** templates used to generate make-compatible dependencies */
```

```
/** Generate "f : x, y, z" dependencies for input
```

```
* dependencies and generated files. in and out
* are File objects. For example, you can say
* <f.canonicalPath>
*/
dependencies(grammarFileName,in,out) ::= <<
<if(in)><grammarFileName>: <in; separator=", "><endif>
<out:{f | <f> : <grammarFileName>}; separator="\n">
>>
```

Found in path(s):

```
* /opt/cola/permits/1192255793_1629156080.64/0/antlr4-4-8-1-sources-1-jar/org/antlr/v4/tool/templates/depend.stg
```

# 1.97 opentelemetry-java 1.12.0-alpha

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# 1.98 micronaut-tracing 4.1.1

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- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/interceptor/TraceInterceptor.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/HttpHeadersTextMap.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingPublisher.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/package-info.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingPublisherUtils.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/annotation/SpanTag.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/package-info.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/TracingExclusionsConfiguration.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/OpenTracingClientFilter.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/OpenTracingInvocationInstrumenter.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/package-info.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingObserver.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/kotlin/HttpCoroutineTracingDispatcherFactory.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/annotation/package-info.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/MdcInstrumenter.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/annotation/NewSpan.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/interceptor/package-info.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingCorePublisher.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/TraceRequestAttributes.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/http/AbstractOpenTracingFilter.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/kotlin/CoroutineTracingDispatcher.kt
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/ScopePropagationPublisher.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-jar/io/micronaut/tracing/instrument/util/TracingInvocationInstrumenterFactory.java
- \* /opt/cola/permits/1331473843\_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-

```
jar/io/micronaut/tracing/instrument/http/package-info.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/instrument/util/ThreadTracingInvocationInstrumenterFactory.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/annotation/ContinueSpan.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
jar/io/micronaut/tracing/DefaultTracer.java
* /opt/cola/permits/1331473843_1653512495.747282/0/micronaut-tracing-core-4-1-1-sources-
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INF/native-image/io.micronaut.tracing/tracing-core/native-image.properties
```

# 1.99 fabric8-::-kubernetes-model-::-node 5.8.0

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```
* /opt/cola/permits/1331474105_1653517011.917058/0/kubernetes-model-node-5-8-0-sources-jar/META-
INF/maven/io.fabric8/kubernetes-model-node/pom.xml
```

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* /opt/cola/permits/1331474105_1653517011.917058/0/kubernetes-model-node-5-8-0-sources-jar/manifest.vm
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# 1.100 okhttp 3.12.12

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```
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
jar/okhttp3/internal/tls/OkHostnameVerifier.java
* /opt/cola/permits/1331474321_1653068657.9097114/0/okhttp-3-12-12-sources-3-
```

jar/okhttp3/internal/http/BridgeInterceptor.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/connection/ConnectInterceptor.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/cache/CacheInterceptor.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/platform/OptionalMethod.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/ConnectionPool.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/connection/RealConnection.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Connection.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Headers.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/tls/DistinguishedNameParser.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/tls/CertificateChainCleaner.java  
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\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/FormBody.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/CipherSuite.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/Http2/PushObserver.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/ws/WebSocketReader.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/RealCall.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/Internal.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/Version.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/TlsVersion.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/Call.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/ws/WebSocketProtocol.java

\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/ResponseBody.java  
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\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/RealResponseBody.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/MultipartBody.java  
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\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http/HttpMethod.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/ConnectionSpec.java  
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jar/okhttp3/internal/cache2/Relay.java  
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jar/okhttp3/internal/http/UnrepeatableRequestBody.java  
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jar/okhttp3/internal/http2/ConnectionShutdownException.java  
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jar/okhttp3/internal/platform/Jdk9Platform.java  
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jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java  
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jar/okhttp3/WebSocketListener.java  
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jar/okhttp3/internal/http/RealInterceptorChain.java  
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jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java  
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jar/okhttp3/internal/platform/AndroidPlatform.java  
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jar/okhttp3/internal/tls/TrustRootIndex.java  
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jar/okhttp3/internal/cache2/FileOperator.java  
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jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-  
jar/okhttp3/internal/http2/StreamResetException.java  
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\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/connection/RouteDatabase.java  
\* /opt/cola/permits/1331474321\_1653068657.9097114/0/okhttp-3-12-12-sources-3-jar/okhttp3/internal/http2/ErrorCode.java  
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# 1.102 micronaut-cache 3.3.0

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Found in path(s):

```
* /opt/cola/permits/1331473548_1653514001.5070863/0/micronaut-cache-caffeine-3-3-0-sources-jar/io/micronaut/cache/caffeine/metrics/CaffeineCacheMetricsBinder.java
* /opt/cola/permits/1331473548_1653514001.5070863/0/micronaut-cache-caffeine-3-3-0-sources-jar/io/micronaut/cache/caffeine/DefaultCacheConfiguration.java
* /opt/cola/permits/1331473548_1653514001.5070863/0/micronaut-cache-caffeine-3-3-0-sources-jar/io/micronaut/cache/caffeine/DefaultDynamicCacheManager.java
* /opt/cola/permits/1331473548_1653514001.5070863/0/micronaut-cache-caffeine-3-3-0-sources-jar/io/micronaut/cache/caffeine/DefaultSyncCache.java
* /opt/cola/permits/1331473548_1653514001.5070863/0/micronaut-cache-caffeine-3-3-0-sources-jar/io/micronaut/cache/caffeine/configuration/CaffeineCacheConfiguration.java
* /opt/cola/permits/1331473548_1653514001.5070863/0/micronaut-cache-caffeine-3-3-0-sources-jar/io/micronaut/cache/caffeine/package-info.java
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```
* /opt/cola/permits/1331473548_1653514001.5070863/0/micronaut-cache-caffeine-3-3-0-sources-jar/META-INF/native-image/io.micronaut.cache/micronaut-cache-caffeine/native-image.properties
```

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```
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
jar/io/micronaut/data/operations/HintsCapableRepository.java
```

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```

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```
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
jar/io/micronaut/data/model/naming/NamingStrategies.java
```

```
* /opt/cola/permits/1331474323_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
jar/io/micronaut/data/annotation/AutoPopulated.java
```

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/repeatable/WhereSpecifications.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PreUpdate.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/SaveAllReactiveInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/QueryParameter.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/BatchOperation.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/GenericRepository.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/NamingStrategy.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/CountReactiveInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/AssociationUtils.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PostRemove.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/annotation/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Where.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindSliceInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/repeatable/TypeDefinitions.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/sql/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Pageable.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/PersistentProperty.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/QueryBuilder.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/PreRemove.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/DeleteOneAsyncInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/reactive/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/CrudRepository.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/UpdateEntityReactiveInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/event/EntityEventMapping.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Slice.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/UpdateInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Query.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/AbstractPersistentEntity.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/SaveEntityAsyncInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Association.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/DataTransformer.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/repeatable/JoinSpecifications.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/reactive/RxJavaCrudRepository.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/FindSliceAsyncInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/SaveOneInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/PersistentEntity.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/jpa/JpaSpecificationExecutor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/AssociationQuery.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Relation.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/FindAllReactiveInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/DataType.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/PrimaryRepositoryOperations.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/QueryHint.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Id.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/UpdateAllEntitiesInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/DefaultStoredDataOperation.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/RuntimeEmbedded.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/StoredDataOperation.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/SaveOneAsyncInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/exceptions/NonUniqueResultException.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/PreparedQuery.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/sql/SqlQueryConfiguration.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/async/AsyncRepositoryOperations.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/reactive/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/RepositoryConfiguration.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Repository.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/MappedEntity.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/async/FindOneAsyncInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/jpa/criteria/SpecificationComposition.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/DefaultQuery.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/annotation/Version.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/exceptions/DataAccessResourceFailureException.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/SaveEntityReactiveInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/JoinPath.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/ExistsByInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/FindPageReactiveInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/sql/Dialect.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/DefaultPageable.java



\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/RepositoryOperations.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/async/AsyncCrudRepository.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindOptionalInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/Criteria.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/builder/QueryResult.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/reactive/FindOneReactiveInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/IterableResultInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/StoredQuery.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Embedded.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/Page.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/intercept/FindStreamInterceptor.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/convert/package-info.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/repository/PageableRepository.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/operations/async/AsyncCapableRepository.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/runtime/DeleteBatchOperation.java

\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-jar/io/micronaut/data/model/query/QueryModel.java

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\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
jar/io/micronaut/data/model/jpa/criteria/impl/AbstractPersistentEntityCriteriaUpdate.java  
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jar/io/micronaut/data/model/PersistentPropertyPath.java  
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jar/io/micronaut/data/event/listeners/PostUpdateEventListener.java  
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jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PersistentPropertyUnaryPredicate.java  
\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
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jar/io/micronaut/data/event/listeners/PostPersistEventListener.java  
\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
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jar/io/micronaut/data/model/jpa/criteria/impl/IdExpression.java  
\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
jar/io/micronaut/data/annotation/Indexes.java  
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jar/io/micronaut/data/model/jpa/criteria/impl/predicate/PersistentPropertyInPredicate.java  
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jar/io/micronaut/data/model/PersistentAssociationPath.java  
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jar/io/micronaut/data/annotation/Index.java  
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jar/io/micronaut/data/model/jpa/criteria/impl/selection/AbstractPersistentPropertyExpression.java  
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jar/io/micronaut/data/model/jpa/criteria/impl/selection/AggregateType.java  
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jar/io/micronaut/data/event/listeners/PreUpdateEventListener.java  
\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
jar/io/micronaut/data/repository/reactive/ReactorCrudRepository.java  
\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
jar/io/micronaut/data/model/jpa/criteria/impl/query/QueryModelPredicateVisitor.java  
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jar/io/micronaut/data/model/jpa/criteria/impl/predicate/NegatedPredicate.java  
\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
jar/io/micronaut/data/model/jpa/criteria/impl/predicate/AbstractPredicate.java  
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jar/io/micronaut/data/model/jpa/criteria/PersistentAssociationPath.java  
\* /opt/cola/permits/1331474323\_1653513905.8667567/0/micronaut-data-model-3-3-0-sources-  
jar/io/micronaut/data/model/jpa/criteria/PersistentPropertyPath.java

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# 1.106 fabric8-::-kubernetes-model-::-core

## 5.8.0

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\* /opt/cola/permits/1331474087\_1653517286.9031222/0/kubernetes-model-core-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-core/pom.xml

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\* /opt/cola/permits/1331474087\_1653517286.9031222/0/kubernetes-model-core-5-8-0-sources-jar/io/fabric8/kubernetes/api/model/GenericKubernetesResource.java

\* /opt/cola/permits/1331474087\_1653517286.9031222/0/kubernetes-model-core-5-8-0-sources-jar/io/fabric8/kubernetes/api/KubernetesResourceMappingProvider.java

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\* /opt/cola/permits/1331474087\_1653517286.9031222/0/kubernetes-model-core-5-8-0-sources-jar/io/fabric8/kubernetes/api/model/DefaultKubernetesResourceList.java

\* /opt/cola/permits/1331474087\_1653517286.9031222/0/kubernetes-model-core-5-8-0-sources-jar/io/fabric8/kubernetes/api/model/WatchEvent.java

\* /opt/cola/permits/1331474087\_1653517286.9031222/0/kubernetes-model-core-5-8-0-sources-jar/io/fabric8/kubernetes/api/model/Namespaced.java

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\* /opt/cola/permits/1331474087\_1653517286.9031222/0/kubernetes-model-core-5-8-0-sources-jar/io/fabric8/kubernetes/api/model/Duration.java

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## 1.107 junit 4.13.2

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```
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* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-
jar/kotlin/reflect/KVisibility.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-
jar/kotlin/internal/InternalAnnotations.kt
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* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-
jar/kotlin/reflect/KDeclarationContainer.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/Comparable.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/Boolean.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/Number.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/Throwable.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/CharSequence.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-
jar/kotlin/annotation/Annotations.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/Function.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/Any.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/Nothing.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/Unit.kt
* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-
jar/kotlin/reflect/KParameter.kt
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* /opt/cola/permits/1331473828_1653068625.3355322/0/kotlin-stdlib-1-6-10-sources-jar/kotlin/Char.kt

```

# 1.109 junit-platform-junit-platform-engine

## 1.8.2

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jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
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jar/org/objectweb/asm/tree/analysis/Interpreter.java
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jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1183891316_1627493686.82/0/asm-analysis-9-1-sources-
jar/org/objectweb/asm/tree/analysis/Subroutine.java
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```
/**
```

```
* Constructs a new { @link BasicInterpreter } for the latest ASM API version. <i>Subclasses must
```

```
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```



\* version.

\*/

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## 1.113 apache-http-client 4.5.13

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\* /opt/cola/permits/1331473878\_1653517139.613246/0/kubernetes-model-flowcontrol-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-flowcontrol/pom.xml

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\* /opt/cola/permits/1331473878\_1653517139.613246/0/kubernetes-model-flowcontrol-5-8-0-sources-jar/manifest.vm

# 1.115 javax-annotation-api 1.3.2

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# 1.116 jackson-bom 2.13.2.1

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# 1.117 generex 1.0.2

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Found in path(s):

\* /opt/cola/permits/1162863542\_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/README.md

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

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.github.mifmif</groupId>
  <artifactId>generex</artifactId>
  <version>1.0.2</version>
```

```

<name>Generex</name>
<url>https://github.com/mifmif/Generex/tree/master</url>
<description>Generex A Java Library for regex to Strings generation</description>
<packaging>jar</packaging>
<licenses>
  <license>
    <name>The Apache Software License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>
<developers>
  <developer>
    <id>mifmif</id>
    <name>MIFRAH Youssef</name>
    <email>mifmif.com@gmail.com</email>
  </developer>
  <developer>
    <id>mkolisnyk</id>
    <name>mkolisnyk</name>
    <email>kolesnik.nickolay@gmail.com</email>
  </developer>
</developers>

<parent>
  <groupId>org.sonatype.oss</groupId>
  <artifactId>oss-parent</artifactId>
  <version>7</version>
</parent>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <maven.pmd.excludes>*/generated-sources/*</maven.pmd.excludes>
</properties>
<scm>
  <connection>scm:git:git@github.com:mifmif/Generex.git</connection>
  <developerConnection>scm:git:git@github.com:mifmif/Generex.git</developerConnection>
  <url>https://github.com/mifmif/Generex.git</url>
</scm>
<ciManagement>
  <url>https://travis-ci.org/mifmif/Generex/builds</url>
  <system>Travis</system>
<notifiers>
  <notifier>
    <address>mifmif.com@gmail.com</address>
    <type>mail</type>
  </notifier>
  <notifier>

```



```

    <address>kolesnik.nickolay@gmail.com</address>
    <type>mail</type>
  </notifier>
</notifiers>
</ciManagement>

<distributionManagement>
  <snapshotRepository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/content/repositories/snapshots</url>
  </snapshotRepository>
  <repository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
  </repository>
</distributionManagement>

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  <testSourceDirectory>src/test/java</testSourceDirectory>
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    <resource>
      <directory>src</directory>
      <excludes>
        <exclude>**/*.java</exclude>
      </excludes>
    </resource>
    <resource>
      <directory>target/dependency</directory>
      <excludes>
        <exclude>**/*.java</exclude>
      </excludes>
    </resource>
    <resource>
      <directory>src/main/resources</directory>
      <includes>
        <include>**/*.properties</include>
      </includes>
    </resource>
  </resources>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-install-plugin</artifactId>
      <version>2.5.2</version>
      <configuration>
        <file>target/${project.artifactId}-${project.version}.jar</file>
      </configuration>
    </plugin>
  </plugins>

```

```

<groupId>${project.groupId}</groupId>
<artifactId>${project.artifactId}</artifactId>
<version>${project.version}</version>
<packaging>maven-plugin</packaging>
</configuration>
</plugin>

<plugin>
<artifactId>maven-compiler-plugin</artifactId>
<version>3.5.1</version>
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<target>1.5</target>
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</plugin>
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<version>3.0.2</version>
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<exclude>freemarker/**/*</exclude>
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<exclude>i18n/**/*</exclude>
<exclude>style/**/*</exclude>
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<exclude>META-INF/maven/**/*</exclude>
<exclude>org/codehaus/**/*</exclude>
<exclude>org/hamcrest/**/*</exclude>
<exclude>org/jbehave/**/*</exclude>
<exclude>org/junit/**/*</exclude>
<exclude>org/testng/**/*</exclude>
<exclude>org/xmlpull/**/*</exclude>
<exclude>stories/**/*</exclude>
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<exclude>tests/**/*</exclude>
</excludes>
<archive>
<manifest>
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<addDefaultImplementationEntries>>true</addDefaultImplementationEntries>
<addDefaultSpecificationEntries>>true</addDefaultSpecificationEntries>
<addExtensions>>false</addExtensions>
<classpathLayoutType>simple</classpathLayoutType>
</manifest>

```

```

</archive>
</configuration>
</plugin>
<plugin>
<artifactId>maven-assembly-plugin</artifactId>
<version>2.6</version>
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<descriptors>
<descriptor>./sources.xml</descriptor>
</descriptors>
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<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-dependency-plugin</artifactId>
<version>2.10</version>
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<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
<version>2.10.3</version>
<configuration>
<show>private</show>
<nohelp>>false</nohelp>
<failOnError>>false</failOnError>
<sourcepath>src/main/java</sourcepath>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-release-plugin</artifactId>
<configuration>
<tagNameFormat>v@{project.version}</tagNameFormat>
<preparationGoals>package install:install-file</preparationGoals>
<scmCommentPrefix>#3</scmCommentPrefix>
</configuration>
</plugin>
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-deploy-plugin</artifactId>
<version>2.8.2</version>
<configuration>
<skip>>true</skip>
</configuration>
</plugin>
<plugin>

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```
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-source-plugin</artifactId>
<version>3.0.1</version>
<executions>
  <execution>
    <goals>
      <goal>jar-no-fork</goal>
    </goals>
  </execution>
</executions>
</plugin>
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<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-javadoc-plugin</artifactId>
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    <id>attach-javadocs</id>
    <goals>
      <goal>jar</goal>
    </goals>
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</executions>
</plugin>
```

```
<plugin>
<groupId>org.apache.maven.plugins</groupId>
<artifactId>maven-gpg-plugin</artifactId>
<executions>
  <execution>
    <id>sign-artifacts</id>
    <phase>deploy</phase>
    <goals>
      <goal>sign</goal>
    </goals>
  </execution>
</executions>

</plugin>
```

```
<plugin>
<groupId>org.sonatype.plugins</groupId>
<artifactId>nexus-staging-maven-plugin</artifactId>
<version>1.6.3</version>
<executions>
```

```

<execution>
  <id>default-deploy</id>
  <phase>deploy</phase>
  <goals>
    <goal>deploy</goal>
  </goals>
</execution>
</executions>
<extensions>true</extensions>
<configuration>
  <serverId>osrh</serverId>
  <nexusUrl>https://oss.sonatype.org/</nexusUrl>
</configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-pmd-plugin</artifactId>
  <version>3.6</version>
  <configuration>
    <failOnViolation>true</failOnViolation>
    <excludeRoots>
      <excludeRoot>target/generated-sources/plugin</excludeRoot>
    </excludeRoots>
    <excludes>
      <exclude>**/HelpMojo.java</exclude>
    </excludes>
  </configuration>
</plugin>
<plugin>
  <groupId>org.apache.maven.plugins</groupId>
  <artifactId>maven-checkstyle-plugin</artifactId>
  <version>2.10</version>
  <configuration>
    <excludes>**/test/java/**/*.*.java</excludes>
  </configuration>
</plugin>
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</extensions>
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</build>

```

```

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  <groupId>org.codehaus.mojo</groupId>
  <artifactId>cobertura-maven-plugin</artifactId>
  <version>2.6</version>
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    </check>
    <instrumentation>
      <excludes>
        <exclude>*/HelpMojo.class</exclude>
      </excludes>
    </instrumentation>
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<plugin>
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    <encoding>${project.build.sourceEncoding}</encoding>
    <ccnLimit>10</ccnLimit>
  </configuration>
</plugin>

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```

<ncssLimit>100</ncssLimit>
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  <groupId>org.codehaus.mojo</groupId>
  <artifactId>findbugs-maven-plugin</artifactId>
  <version>3.0.3</version>
  <configuration>
    <encoding>${project.build.sourceEncoding}</encoding>
    <failOnError>true</failOnError>
    <excludeFilterFile>findBugsExclude.xml</excludeFilterFile>
  </configuration>
  <executions>
    <execution>
      <goals>
        <goal>check</goal>
      </goals>
    </execution>
  </executions>
</plugin>
<plugin>
  <groupId>org.codehaus.mojo</groupId>
  <artifactId>jdepend-maven-plugin</artifactId>
  <version>2.0</version>
</plugin>
</plugins>
</build>
<dependencies>
  <dependency>
    <groupId>dk.brics.automaton</groupId>
    <artifactId>automaton</artifactId>
    <version>1.11-8</version>
  </dependency>
  <dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.12</version>

```

```
<scope>test</scope>
</dependency>
<dependency>
  <groupId>org.hamcrest</groupId>
  <artifactId>hamcrest-junit</artifactId>
  <version>2.0.0.0</version>
  <scope>test</scope>
</dependency>
</dependencies>
</project>
```

Found in path(s):

\* /opt/cola/permits/1162863542\_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/pom.xml

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```
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```

Found in path(s):

\* /opt/cola/permits/1162863542\_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/util/Iterable.java  
\* /opt/cola/permits/1162863542\_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/GenerexIterator.java  
\* /opt/cola/permits/1162863542\_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/util/Iterator.java  
\* /opt/cola/permits/1162863542\_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Node.java  
\* /opt/cola/permits/1162863542\_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Main.java  
\* /opt/cola/permits/1162863542\_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-e910243/src/main/java/com/mifmif/common/regex/Generex.java



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 */
```

Found in path(s):

```
* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-
e910243/src/test/java/com/mifmif/common/regex/GenerexUnitTest.java
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```

```
/*
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 */
```

Found in path(s):

```
* /opt/cola/permits/1162863542_1620923914.63/0/mifmif-generex-1-0-2-0-ge910243-tar-gz/mifmif-Generex-
e910243/src/test/java/com/mifmif/common/regex/GenerexIteratorUnitTest.java
```

## 1.118 micronaut-rxjava-3 2.2.1

## 1.118.1 Available under license :

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```
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 */
```

Found in path(s):

```
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedComponent.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedCompletableObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/converters/RxJava2ToRxJava3ConverterRegistrar.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedParallelFlowable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedSingleObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedConnectableFlowable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedObservable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/converters/RxJava3ConverterRegistrar.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedCompletable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedMaybeObserver.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedConnectableObservable.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxJava3Instrumentation.java
* /opt/cola/permits/1331474197_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-
jar/io/micronaut/rxjava3/instrument/RxInstrumentedWrappers.java
```

\* /opt/cola/permits/1331474197\_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-jar/io/micronaut/rxjava3/instrument/RxInstrumentedFlowableSubscriber.java  
\* /opt/cola/permits/1331474197\_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-jar/io/micronaut/rxjava3/instrument/RxInstrumentedFlowable.java  
\* /opt/cola/permits/1331474197\_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-jar/io/micronaut/rxjava3/instrument/RxInstrumentedSubscriber.java  
\* /opt/cola/permits/1331474197\_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-jar/io/micronaut/rxjava3/instrument/RxInstrumentedMaybe.java  
\* /opt/cola/permits/1331474197\_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-jar/io/micronaut/rxjava3/instrument/RxInstrumentedSingle.java  
\* /opt/cola/permits/1331474197\_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-jar/io/micronaut/rxjava3/instrument/RxInstrumenterFactory.java  
\* /opt/cola/permits/1331474197\_1653513200.9120781/0/micronaut-rxjava3-2-2-1-sources-jar/io/micronaut/rxjava3/instrument/package-info.java

## 1.119 kotlin-stdlib-common 1.6.10

### 1.119.1 Available under license :

Apache-2.0

## 1.120 micronaut-rxjava-2 1.2.1

### 1.120.1 Available under license :

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# 1.121 latencyutils 2.0.3

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```
PK0P=spring-cloud-starter-netflix-ribbon-2.1.2.RELEASE-sources.jarg4G7C{ F-`DutCD !QG7Dwy>9u:g?{]ic`pqq
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"nJ9${,VdS} .~E8[MNbW/
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nKbdE ^O^yTd/\$Vu|=Q HJJ\_k0YzH+;+Wb=u`xm  
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3amB~eQ4\$WKg5F#\*=Qx&% W`d  
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sources.jarzex]9c1ffff333C113cq3\_` }GVRTz\$A`r}  
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a2mMbW+Cs(/0>"~e8@ @llpu+%vgNhDxX%  
Tf\*"8f\*f(a[Xn@\${YQa/=HHHb,WAG  
p>a66ff,iz0D)d|\_7}i+{TFjCp}WX&k1v-I tst]B <)cri!;!D4+  
%!F9\DaP7KF\*nn >`  
HOM-\_/;ta?]w^JzC] @!VaN=\$ODc%\*CsI  
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/-h`p^i8.UIVnF|x-&e<O?dAtHCDj"  
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-mj^



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0\$^I}2]>/"(sE-E:~xNEEx)  
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4R,r]QNo >UYT<
r?=3LaAnfO"Zo;1mu?.5z+bYhX %
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a23pT]sO,rf;&gq|dL)BsZ{mtwciPt=[5hmUS$A@ 9t*bSI?@IbO_!`?! G/qU'w><00` aEw`?|Nlu ;~::~~
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sources.jarPK9ZP'&26spring-cloud-netflix-sidecar-2.2.2.RELEASE-sources.jarPK=
```

# 1.122 micronaut-views 3.2.0

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Found in path(s):

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/META-INF/native-
image/io.micronaut.views.model.security/native-image.properties
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/META-INF/native-
image/io.micronaut.views.csp/native-image.properties
```

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\*/

Found in path(s):

\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/csp/package-info.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/View.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsConfigurationProperties.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/csp/CspConfiguration.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/csp/CspFilter.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ModelAndView.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/ViewModelProcessor.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewUtils.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsRenderer.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/SecurityViewModelProcessor.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/ViewsConfiguration.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/package-info.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/package-info.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/model/security/SecurityViewModelProcessorConfigurationProperties.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/exceptions/ViewRenderingException.java  
\* /opt/cola/permits/1331474137\_1653511933.527574/0/micronaut-views-core-3-2-0-sources-jar/io/micronaut/views/exceptions/package-info.java

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/model/security/package-info.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/exceptions/ViewNotFoundException.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/model/security/SecurityViewModelProcessorConfiguration.java
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*/
```

Found in path(s):

```
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsFilter.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsResolver.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/DefaultViewsRendererLocator.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsModelDecorator.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/DefaultViewsResolver.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/DefaultViewsModelDecorator.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsRendererKey.java
* /opt/cola/permits/1331474137_1653511933.527574/0/micronaut-views-core-3-2-0-sources-
jar/io/micronaut/views/ViewsRendererLocator.java
```

## 1.123 jacoco 0.8.7

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# 1.124 jackson-annotations 2.13.2

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## 1.125 okhttp-logging-interceptor 3.12.12

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```
* /opt/cola/permits/1294625109_1649800590.01/0/logging-interceptor-3-12-12-sources-  
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```
*/opt/cola/permits/1294625109_1649800590.01/0/logging-interceptor-3-12-12-sources-
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```

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## 1.129 micronaut-problem-json 2.2.2

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* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/ProblemErrorResponseProcessor.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/violations/Violation.java
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jar/io/micronaut/problem/HttpStatusType.java
* /opt/cola/permits/1331473572_1653068678.1544204/0/micronaut-problem-json-2-2-2-sources-
jar/io/micronaut/problem/conf/MixinThrowableProblem.java
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jar/io/micronaut/problem/conf/ProblemConfiguration.java
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## 1.130 apache-groovy 3.0.10

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jar/io/micronaut/serde/Serializer.java  
\* /opt/cola/permits/1331474218\_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-  
jar/io/micronaut/serde/reference/SerializationReference.java  
\* /opt/cola/permits/1331474218\_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-  
jar/io/micronaut/serde/config/SerializationConfiguration.java  
\* /opt/cola/permits/1331474218\_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-



jar/io/micronaut/serde/annotation/Serdeable.java

\* /opt/cola/permits/1331474218\_1653513142.445036/0/micronaut-serde-api-1-0-1-sources-

jar/io/micronaut/serde/reference/PropertyReferenceManager.java

# 1.133 guava v29.0

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Doug Lea

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## 1.136 micronaut-reactor 2.2.2

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```
* /opt/cola/permits/1331473741_1653068550.395305/0/micronaut-reactor-2-2-2-sources-1-
jar/io/micronaut/reactor/convert/ReactorConverterRegistrar.java
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jar/io/micronaut/reactor/convert/ReactorToRxJava2ConverterRegistrar.java
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```

```
data class License(val name: String, val url: URI, val headerFile: File)
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# 1.140 netty-project 4.1.76.Final

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- \* HOMEPAGE:
  - \* <https://www.opensource.apple.com/source/configd/configd-453.19/dnsinfo/dnsinfo.h>

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\* <https://github.com/hyperxpro/Brotli4j>

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the location should be "release-notes/asl"; and in jar "META-INF/"  
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## 1.141 slf4j-api-module 1.7.32

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Found in path(s):

```
* /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/MDC.java
* /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/Logger.java
* /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-
jar/org/slf4j/impl/StaticMDCBinder.java
* /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-
jar/org/slf4j/spi/MarkerFactoryBinder.java
* /opt/cola/permits/1267277703_1648511906.32/0/slf4j-api-1-7-32-sources-
jar/org/slf4j/helpers/BasicMarkerFactory.java
```



- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/SubstituteLogger.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/LoggerFactory.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/BasicMDCAdapter.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/MarkerFactory.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/SubstituteLoggerFactory.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/Marker.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/BasicMarker.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/MarkerIgnoringBase.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NOPLogger.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/LocationAwareLogger.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NOPMDCAdapter.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NOPLoggerFactory.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/impl/StaticMarkerBinder.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/impl/StaticLoggerBinder.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/LoggerFactoryBinder.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/IMarkerFactory.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/ILoggerFactory.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/Util.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/MessageFormatter.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/spi/MDCAdapter.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/NamedLoggerBase.java
- \* /opt/cola/permits/1267277703\_1648511906.32/0/slf4j-api-1-7-32-sources-jar/org/slf4j/helpers/FormattingTuple.java

## 1.142 mockito-junit-jupiter 4.3.1

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## 1.143 micronaut-coherence 3.0.1

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io.micronaut.coherence.config.MicronautSystemPropertyResolver

Found in path(s):

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-INF/services/com.tangosol.coherence.config.SystemPropertyResolver
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- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/config/CoherenceDefaultProperties.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/namespace/BeanBuilder.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/package-info.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/CoherenceContext.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/grpc/GrpcServerBuilder.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/SessionType.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/namespace/BeanProcessor.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/SubscriberExecutorServiceConfig.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/config/MicronautSystemPropertyResolver.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/namespace/package-info.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/package-info.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/SessionConfigurationProvider.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/AbstractSessionConfigurationBean.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/namespace/MicronautNamespaceHandler.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/TopicKey.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/JsonSerializerFactory.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/grpc/GrpcServerConfigurer.java
- \* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/grpc/package-info.java

```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-
jar/io/micronaut/coherence/SerializerFactories.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-
jar/io/micronaut/coherence/SessionConfigurationBean.java
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-
jar/io/micronaut/coherence/InjectorImpl.java
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```

io.micronaut.coherence.grpc.GrpcServerBuilder\$GrpcServerBuilderProviderBean

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```
* /opt/cola/permits/1331473926_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-
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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/ExtractorFactory.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Updated.java

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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/NamedTopicFactories.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Activated.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/MapEventTransformerBinding.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Committed.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CoherenceEventListener.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/ElementBinder.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Scope.java

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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/SerializerFormat.java

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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Removed.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Stopping.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ChainedExtractor.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Syncing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/PropertyExtractor.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Started.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/FilterFactory.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Stopped.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Recovered.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Departing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Error.java

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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/exceptions/CoherenceSubscriberException.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/MapEventTransformerFactory.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/FilterBinding.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Synced.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/AnnotatedElementBinder.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/EventArgumentBinderRegistry.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Starting.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ConfigUri.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Inserted.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/SubscriberGroup.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Synchronous.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CommittingRemote.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/ExecutableMethodMapListener.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Assigned.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/FactoryQualifier.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ScopeName.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Committing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Processor.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CommitStrategy.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Connecting.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CoherenceTopicListener.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Executed.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/CoherencePublisherIntroductionAdvice.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Executing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/SessionName.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CoherencePublisher.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/ExtractorFactories.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CommittingLocal.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/BaseExecutableMethodObserver.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/SubscriberExceptionHandler.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/TypedElementBinder.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Inserting.java

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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/CoherenceEventListenerProcessor.java

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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/AnnotatedMapListener.java

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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/ServiceName.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/DefaultTopicBinder.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/View.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Topic.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Replicating.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Updating.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/CacheName.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Name.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Backlog.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/messaging/binders/ElementArgumentBinderRegistry.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Removing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Activating.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/EventObserverSupport.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/CoherenceFactory.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Lite.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/MapName.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Topics.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/event/ExecutableMethodEventObserver.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Disposing.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Disconnected.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/annotation/Lost.java

\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/NamedCacheFactories.java



\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/io/micronaut/coherence/MapEventTransformerFactories.java

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io.micronaut.coherence.grpc.GrpcServerConfigurer\$GrpcServerConfigurationBean

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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-INF/services/com.oracle.coherence.grpc.proxy.GrpcServerConfiguration

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io.micronaut.coherence.InjectorImpl

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\* /opt/cola/permits/1331473926\_1653068590.7919037/0/micronaut-coherence-3-0-1-sources-jar/META-

# 1.144 j2objc-annotations 1.3

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```
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/RetainedWith.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/Property.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/LoopTranslation.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/ObjectiveCName.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/ReflectionSupport.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/RetainedLocalRef.java
* /opt/cola/permits/1131003150_1612875443.99/0/j2objc-annotations-1-3-sources-3-
jar/com/google/j2objc/annotations/J2ObjCIncompatible.java
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- \* /opt/cola/permits/1131003150\_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/AutoreleasePool.java
- \* /opt/cola/permits/1131003150\_1612875443.99/0/j2objc-annotations-1-3-sources-3-jar/com/google/j2objc/annotations/WeakOuter.java

## 1.145 duct-tape 1.0.8

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## 1.146 fabric8-::-kubernetes-model-::-rbac

### 5.8.0

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# 1.147 joda-time 2.10.14

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## 1.149 objenesis 3.2

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# 1.151 findbugs-jsr305 3.0.2

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\* /opt/cola/permits/1097547097\_1602103963.09/0/okio-1-15-0-sources-1-jar/okio/HashingSink.java  
\* /opt/cola/permits/1097547097\_1602103963.09/0/okio-1-15-0-sources-1-jar/okio/HashingSource.java  
\* /opt/cola/permits/1097547097\_1602103963.09/0/okio-1-15-0-sources-1-jar/okio/Options.java  
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\* /opt/cola/permits/1097547097\_1602103963.09/0/okio-1-15-0-sources-1-jar/okio/ByteString.java

## 1.155 fabric8-::-kubernetes-model-::-apps

### 5.8.0

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\* /opt/cola/permits/1331473722\_1653517510.9892352/0/kubernetes-model-apps-5-8-0-sources-jar/META-INF/maven/io.fabric8/kubernetes-model-apps/pom.xml

## 1.156 commons-codec 1.15

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# 1.157 protocol-buffers-[bom] 3.17.2

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Leandro Lucarella <llucax@gmail.com>  
\* VI syntax highlighting tweaks.  
\* Fix compiler to not make output executable.  
Dilip Joseph <dilip.antony.joseph@gmail.com>  
\* Heuristic detection of sub-messages when printing unknown fields in

text format.

Brian Atkinson <nairb774@gmail.com>  
\* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>  
\* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>  
\* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>  
\* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>  
\* MS Visual Studio error format option.  
\* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>  
\* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>  
\* Fixed warnings about generated constructors not explicitly initializing all fields (only present with certain compiler settings).  
\* Added generation of field number constants.

Wink Saville <wink@google.com>  
\* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>  
\* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>  
\* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>  
\* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>  
\* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>  
\* Detect whether zlib is new enough in configure script.  
\* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>  
\* Optimize Java serialization code when writing a small message to a stream.  
\* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.  
\* Clean up some Java warnings.  
\* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>  
\* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>  
\* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>  
\* Fixed detection of sched\_yield on Solaris.  
\* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>  
\* Fixed minor IBM xLC compiler build issues  
\* Added atomicops for AIX (POWER)

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## 1.159 testcontainers-bom 1.16.2

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ibmcom/db2:11.5.0.0a

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neo4j:3.5.0-enterprise

a

b

mcr.microsoft.com/mssql/server:2017-CU12

## 1.160 byte-buddy-agent 1.12.7

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# 1.161 javassist 3\_26\_0\_ga

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## 1.162 fabric8-::-kubernetes-model-::-policy

### 5.8.0

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\* /opt/cola/permits/1331473678\_1653515828.9359393/0/kubernetes-model-policy-5-8-0-sources-jar/manifest.vm

## 1.163 docker-java 3.2.12

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\* /opt/cola/permits/1331473523\_1653068661.0567706/0/docker-java-api-3-2-12-sources-jar/com/github/dockerjava/api/model/HealthCheck.java

## 1.164 error\_prone\_annotations 2.3.4

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\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/concurrent/UnlockMethod.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/concurrent/LockMethod.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/NoAllocation.java  
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\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/RestrictedApi.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/DoNotMock.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/CompatibleWith.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/FormatMethod.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/FormatString.java  
\* /opt/cola/permits/1206718612\_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-jar/com/google/errorprone/annotations/MustBeClosed.java

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* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/CheckReturnValue.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/DoNotCall.java
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jar/com/google/errorprone/annotations/SuppressPackageLocation.java
```

```
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/ForOverride.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/concurrent/LazyInit.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/RequiredModifiers.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/Var.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /opt/cola/permits/1206718612_1632455182.54/0/error-prone-annotations-2-3-4-sources-9-
jar/com/google/errorprone/annotations/Immutable.java
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## 1.165 micronaut-email 1.2.1

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* /opt/cola/permits/1331473578_1653068511.1991618/0/micronaut-email-1-2-1-sources-
jar/io/micronaut/email/AsyncEmailSender.java
* /opt/cola/permits/1331473578_1653068511.1991618/0/micronaut-email-1-2-1-sources-
jar/io/micronaut/email/StringBody.java
* /opt/cola/permits/1331473578_1653068511.1991618/0/micronaut-email-1-2-1-sources-
jar/io/micronaut/email/validation/RecipientsUtils.java
* /opt/cola/permits/1331473578_1653068511.1991618/0/micronaut-email-1-2-1-sources-
jar/io/micronaut/email/configuration/FromConfigurationProperties.java
```

\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/MultipartBody.java

\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/FromDecorator.java

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\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/TrackLinks.java

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\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/EmailException.java

\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/AbstractTransactionalEmailSender.java

\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/DefaultEmailSender.java

\* /opt/cola/permits/1331473578\_1653068511.1991618/0/micronaut-email-1-2-1-sources-jar/io/micronaut/email/validation/Recipients.java

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```
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This is free software, and you are welcome to redistribute it  
under certain conditions; type 'show c' for details.
```

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```
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```

```
<signature of Ty Coon>, 1 April 1989
```

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## 1.167 jackson-dataformat-yaml 2.13.2

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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, as well as supported commercially by FasterXML.com.

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## 1.168 reactive-streams v1.0.3

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## 1.169 zjsonpatch 0.3.0

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

```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
```

```
  <groupId>com.flipkart.zjsonpatch</groupId>
  <artifactId>zjsonpatch</artifactId>
  <version>0.3.0</version>
  <packaging>jar</packaging>
```

```
  <name>zjsonpatch</name>
  <description>Java Library to find / apply JSON Patches according to RFC 6902</description>
  <url>https://github.com/flipkart-incubator/zjsonpatch/</url>
```

```
  <scm>
    <connection>scm:git:https://github.com/flipkart-incubator/zjsonpatch.git</connection>
    <developerConnection>scm:git:https://github.com/flipkart-incubator/zjsonpatch.git</developerConnection>
    <tag>HEAD</tag>
    <url>https://github.com/flipkart-incubator/zjsonpatch/</url>
  </scm>
```

```
  <developers>
    <developer>
      <id>vishwakarma</id>
```

```

    <name>Gopi Vishwakarma</name>
    <email>vishwakarma.iiita@gmail.com</email>
  </developer>
</developers>

<licenses>
  <license>
    <name>The Apache Software License, Version 2.0</name>
    <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
    <distribution>repo</distribution>
  </license>
</licenses>

<properties>
  <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
  <jackson.version>2.8.5</jackson.version>
</properties>

<build>
  <plugins>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-compiler-plugin</artifactId>
      <version>2.3.1</version>
      <configuration>
        <source>1.6</source>
        <target>1.6</target>
        <showDeprecation>>true</showDeprecation>
        <showWarnings>>true</showWarnings>
      </configuration>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-source-plugin</artifactId>
      <version>2.2.1</version>
      <executions>
        <execution>
          <id>attach-sources</id>
          <goals>
            <goal>jar-no-fork</goal>
          </goals>
        </execution>
      </executions>
    </plugin>
    <plugin>
      <groupId>org.apache.maven.plugins</groupId>
      <artifactId>maven-javadoc-plugin</artifactId>
      <version>2.9.1</version>

```

```

    <executions>
      <execution>
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        <goals>
          <goal>jar</goal>
        </goals>
      </execution>
    </executions>
  </plugin>
  <plugin>
    <groupId>org.sonatype.plugins</groupId>
    <artifactId>nexus-staging-maven-plugin</artifactId>
    <version>1.6.3</version>
    <extensions>true</extensions>
    <configuration>
      <serverId>ossrh</serverId>
      <nexusUrl>https://oss.sonatype.org/</nexusUrl>
      <autoReleaseAfterClose>true</autoReleaseAfterClose>
    </configuration>
  </plugin>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-gpg-plugin</artifactId>
    <version>1.4</version>
    <executions>
      <execution>
        <id>sign-artifacts</id>
        <phase>verify</phase>
        <goals>
          <goal>sign</goal>
        </goals>
      </execution>
    </executions>
  </plugin>
  <plugin>
    <groupId>org.apache.maven.plugins</groupId>
    <artifactId>maven-release-plugin</artifactId>
    <version>2.5</version>
    <configuration>
      <autoVersionSubmodules>true</autoVersionSubmodules>
      <useReleaseProfile>>false</useReleaseProfile>
      <releaseProfiles>release</releaseProfiles>
      <goals>deploy</goals>
    </configuration>
  </plugin>
</plugins>
</build>
<dependencies>

```

```

<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-databind</artifactId>
  <version>${jackson.version}</version>
</dependency>
<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-core</artifactId>
  <version>${jackson.version}</version>
</dependency>
<dependency>
  <groupId>com.google.guava</groupId>
  <artifactId>guava</artifactId>
  <version>18.0</version>
</dependency>
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  <scope>test</scope>
  <groupId>commons-io</groupId>
  <artifactId>commons-io</artifactId>
  <version>2.4</version>
</dependency>
<dependency>
  <scope>test</scope>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>4.12</version>
</dependency>
<dependency>
  <groupId>org.apache.commons</groupId>
  <artifactId>commons-collections4</artifactId>
  <version>4.1 </version>
</dependency>
</dependencies>
<distributionManagement>
  <snapshotRepository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/content/repositories/snapshots</url>
  </snapshotRepository>
  <repository>
    <id>ossrh</id>
    <url>https://oss.sonatype.org/service/local/staging/deploy/maven2/</url>
  </repository>
</distributionManagement>
</project>

```

Found in path(s):

\* /opt/cola/permits/1288519755\_1647351836.02/0/zjsonpatch-0-3-0-jar/META-INF/maven/com.flipkart.zjsonpatch/zjsonpatch/pom.xml

# 1.170 jackson-bom 2.13.2

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## 1.171 xml-path 5.0.1

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\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-jar/io/restassured/internal/path/xml/GroovyNodeSerializer.groovy

\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-jar/io/restassured/path/xml/mapper/factory/DefaultJakartaEEObjectMapperFactory.java

\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-jar/io/restassured/path/xml/config/XmlParserType.java

\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-

jar/io/restassured/path/xml/exception/XmlPathException.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/internal/path/xml/XmlRenderer.groovy  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/internal/path/xml/XMLAssertion.groovy  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/path/xml/element/Node.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/internal/path/xml/mapping/XmlPathJaxbObjectDeserializer.groovy  
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jar/io/restassured/internal/path/xml/mapping/XmlPathJakartaEEObjectDeserializer.groovy  
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jar/io/restassured/internal/path/xml/NodeImpl.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/path/xml/mapping/XmlPathObjectDeserializer.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/path/xml/mapper/factory/JAXBObjectMapperFactory.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/path/xml/element/PathElement.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/internal/path/xml/NodeChildrenImpl.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/path/xml/config/XmlPathConfig.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/path/xml/element/NodeChildren.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/internal/path/xml/XmlPrettifier.groovy  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/path/xml/XmlPath.java  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/internal/path/xml/NodeBase.groovy  
\* /opt/cola/permits/1331474031\_1653068544.1701775/0/xml-path-5-0-1-sources-  
jar/io/restassured/internal/path/xml/mapping/XmlObjectDeserializer.groovy

## 1.172 testcontainers-junit-jupiter-extension

### 1.16.2

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neo4j:3.5.0-enterprise

a

b

mcr.microsoft.com/mssql/server:2017-CU12

## 1.173 slf4j-api-module 1.7.36

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\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-

jar/org/slf4j/helpers/FormattingTuple.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/helpers/NOPLoggerFactory.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/spi/MDCAdapter.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-jar/org/slf4j/MarkerFactory.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/impl/StaticLoggerBinder.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/impl/StaticMarkerBinder.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-jar/org/slf4j/MDC.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/helpers/MessageFormatter.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-jar/org/slf4j/Marker.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/helpers/BasicMDCAdapter.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/helpers/BasicMarker.java  
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\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/impl/StaticMDCBinder.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/helpers/MarkerIgnoringBase.java  
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jar/org/slf4j/helpers/NOPMDCAdapter.java  
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jar/org/slf4j/helpers/NamedLoggerBase.java  
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jar/org/slf4j/helpers/BasicMarkerFactory.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-jar/org/slf4j/helpers/Util.java  
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jar/org/slf4j/helpers/SubstituteLogger.java  
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jar/org/slf4j/spi/MarkerFactoryBinder.java  
\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
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\* /opt/cola/permits/1331474007\_1653510300.1759446/0/slf4j-api-1-7-36-sources-  
jar/org/slf4j/helpers/SubstituteLoggerFactory.java

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# 1.175 jackson-core 2.13.2

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