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Text Part Number: 78EE117C99-1089332019

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## 1.5 spring-boot 1.5.12.RELEASE

## 1.6 metrics-health-checks 4.1.0

## 1.7 semargl-sesame 0.6.1

## 1.8 jetty 9.4.17.v20190418

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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Oracle OpenJDK

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\* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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org.eclipse.jetty.toolchain:jetty-schemas

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## 1.10 jaeger-core 0.27.0-RC1

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```
* /opt/ws_local/PERMITS_SQL/1069085013_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-
jar/io/jaegertracing/PropagationRegistry.java
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\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/senders/Sender.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/Counter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/http/RateLimitingSamplingStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/exceptions/UnknownSamplingStrategyException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/exceptions/EmptyIpException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/Sampler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/exceptions/NotFourOctetsException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/exceptions/MalformedTracerStateStringException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/http/OperationSamplingParameters.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/exceptions/SamplingStrategyErrorException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/Constants.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/http/SamplingStrategyResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/StatsFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/PerOperationSampler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/RateLimitingSampler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/propagation/Injector.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/SamplingManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/senders/HttpSender.java

\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/NullStatsReporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/StatsFactoryImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/Timer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/utils/RateLimiter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/LogData.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/propagation/PrefixedKeys.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/senders/ThriftSender.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/exceptions/SenderException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/exceptions/EmptyTracerStateStringException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/http/ProbabilisticSamplingStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/ConstSampler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/Configuration.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/SamplingStatus.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/propagation/Extractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/ProbabilisticSampler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/StatsReporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/Gauge.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/reporters/Reporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/utils/Clock.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/utils/Http.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/GuaranteedThroughputSampler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/utils/SystemClock.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/reporters/LoggingReporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/SpanContext.java

\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/Metric.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/Span.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/RemoteControlledSampler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/reporters/NoopReporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/http/PerOperationSamplingParameters.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/exceptions/UnsupportedFormatException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/Metrics.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/metrics/InMemoryStatsReporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/reporters/protocols/JaegerThriftSpanConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/samplers/HttpSamplingManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/reporters/InMemoryReporter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/baggage/BaggageSetter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/baggage/DefaultBaggageRestrictionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/Reference.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/baggage/BaggageRestrictionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/propagation/HexCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/baggage/HttpBaggageRestrictionManagerProxy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/baggage/Restriction.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/baggage/RemoteBaggageRestrictionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/propagation/B3TextMapCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/utills/Java6CompatibleThreadLocalRandom.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/baggage/BaggageRestrictionManagerProxy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069085013\_1594481760.44/0/jaeger-core-0-27-0-rc1-sources-jar/io/jaegertracing/exceptions/BaggageRestrictionManagerException.java

## 1.11 grpc-protobuf 1.9.0

## 1.12 commons-configuration 2.0

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## 1.13 spring-security-acl 3.2.4.RELEASE

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* /opt/ws_local/PERMITS_SQL/1069089927_1594483203.84/0/spring-context-support-4-3-19-release-sources-
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* /opt/ws_local/PERMITS_SQL/1069089927_1594483203.84/0/spring-context-support-4-3-19-release-sources-
jar/org/springframework/scheduling/commonj/TimerManagerTaskScheduler.java
* /opt/ws_local/PERMITS_SQL/1069089927_1594483203.84/0/spring-context-support-4-3-19-release-sources-
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jar/org/springframework/scheduling/quartz/CronTriggerFactoryBean.java  
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jar/org/springframework/scheduling/quartz/SimpleTriggerFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-  
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jar/org/springframework/cache/jcache/interceptor/AbstractFallbackJCacheOperationSource.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-  
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jar/org/springframework/scheduling/quartz/SchedulerAccessor.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/mail/MailSendException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/scheduling/commonj/DelegatingWork.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/scheduling/commonj/TimerManagerAccessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/scheduling/quartz/DelegatingJob.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/scheduling/commonj/DelegatingTimerListener.java

\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/ui/velocity/SpringResourceLoader.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/mail/MailPreparationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/mail/javamail/SmartMimeMessage.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/ui/freemarker/FreeMarkerConfigurationFactoryBean.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/scheduling/commonj/TimerManagerFactoryBean.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/cache/jcache/interceptor/AnnotationJCacheOperationSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/cache/jcache/interceptor/JCacheOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089927\_1594483203.84/0/spring-context-support-4-3-19-release-sources-jar/org/springframework/mail/javamail/JavaMailSenderImpl.java

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## 1.16 hk2-runlevel 2.5.0-b05

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## 1.20 grpc-protobuf-lite 1.9.0

## 1.21 velocity 1.7c

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## 1.22 model 2.5.0-b05

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## 1.24 knowledge-api 6.5.0.Final

## 1.25 jaxb-runtime 2.3.1

## 1.26 swagger-annotations 1.5.0

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*/
```

```
package io.swagger.annotations;
```

```
import java.lang.annotation.ElementType;  
import java.lang.annotation.Retention;  
import java.lang.annotation.RetentionPolicy;  
import java.lang.annotation.Target;
```

```
/**  
 * License metadata available within the info section of a Swagger definition, see  
 * https://github.com/swagger-api/swagger-spec/blob/master/versions/2.0.md#licenseObject  
 *  
 * @since 1.5.0  
 */
```

```
@Target(ElementType.ANNOTATION_TYPE)  
@Retention(RetentionPolicy.RUNTIME)  
public @interface License {
```

```
    /**  
     * The name of the license.  
     *  
     * @return the name of the license  
     */  
    String name();  
  
    /**  
     * An optional URL for the license.  
     *  
     * @return an optional URL for the license.  
     */  
    String url() default "";  
}
```

## 1.27 typesafe-config 1.0.2

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## 1.28 jnr-posix 3.0.27

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## 1.30 jsr305 3.0.1

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```
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jar/javax/annotation/concurrent/Immutable.java  
* /opt/ws_local/PERMITS_SQL/1085033314_1598867737.41/0/jsr305-3-0-1-sources-1-  
jar/javax/annotation/concurrent/NotThreadSafe.java  
* /opt/ws_local/PERMITS_SQL/1085033314_1598867737.41/0/jsr305-3-0-1-sources-1-  
jar/javax/annotation/concurrent/GuardedBy.java
```

## 1.31 jackson-jaxrs-json-provider 2.9.10

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

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# 1.32 bean-validation-api 1.1.0.Final

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\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableType.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ExecutableValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/executable/ValidateOnExecution.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ReturnValueDescriptor.java

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jar/javax/validation/ParameterNameProvider.java
* /opt/ws_local/PERMITS_SQL/1028061164_1594247880.99/0/validation-api-1-1-0-final-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/BeanDescriptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintViolation.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/Validator.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ReportAsSingleViolation.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/groups/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/Path.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/DecimalMin.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Past.java
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- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDefinitionException.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/Constraint.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/GenericBootstrap.java
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- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ValidationProviderResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/OverridesAttribute.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintDeclarationException.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Min.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/UnexpectedTypeException.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Null.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/Payload.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertTrue.java
- \* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/Valid.java
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\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/ElementDescriptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/Pattern.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/GroupDefinitionException.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/constraints/AssertFalse.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/bootstrap/ProviderSpecificBootstrap.java

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\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/CrossParameterDescriptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/metadata/package-info.java  
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\* /opt/ws\_local/PERMITS\_SQL/1028061164\_1594247880.99/0/validation-api-1-1-0-final-sources-jar/javax/validation/ConstraintTarget.java

## 1.33 jetty-continuation 9.3.27.v20190418

## 1.34 jaxb-api 2.2.11

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## 1.38 cglib 3.0

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\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
jar/org/springframework/aop/support/annotation/AnnotationMethodMatcher.java  
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jar/org/springframework/aop/aspectj/RuntimeTestWalker.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
jar/org/springframework/aop/BeforeAdvice.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
jar/org/springframework/aop/framework/AopInfrastructureBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
jar/org/springframework/aop/RawTargetAccess.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
jar/org/springframework/aop/config/AspectComponentDefinition.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
jar/org/springframework/aop/IntroductionInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
jar/org/springframework/aop/SpringProxy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
jar/org/springframework/aop/config/AspectEntry.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-  
jar/org/springframework/aop/framework/AdvisedSupportListener.java

\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/ClassFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/framework/InterceptorAndDynamicMethodMatcher.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/aopalliance/intercept/MethodInvocation.java

\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/aspectj/AspectJExpressionPointcut.java

\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/aopalliance/intercept/Joinpoint.java

\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/aspectj/annotation/SimpleMetadataAwareAspectInstanceFactory.java

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\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/aspectj/annotation/AspectMetadata.java

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\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/aspectj/AspectJAfterReturningAdvice.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/framework/adapter/AfterReturningAdviceInterceptor.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/framework/CglibAopProxy.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/support/DefaultIntroductionAdvisor.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/support/IntroductionInfoSupport.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/support/StaticMethodMatcher.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/framework/adapter/AdvisorAdapterRegistry.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/aspectj/annotation/InstantiationModelAwarePointcutAdvisorImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/MethodMatcher.java

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\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/framework/adapt/ThrowsAdviceInterceptor.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/aspectj/MethodInvocationProceedingJoinPoint.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083607\_1594482868.54/0/spring-aop-4-3-19-release-sources-1-jar/org/springframework/aop/interceptor/AsyncUncaughtExceptionHandler.java

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## 1.54 xml-beans 2.6.0

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## 1.58 annotations 2.0.1

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- \* /opt/ws\_local/PERMITS\_SQL/1068920014\_1594470329.8/0/spring-rabbit-1-2-0-release-sources-2-jar/org/springframework/amqp/rabbit/connection/CompositeChannelListener.java
- \* /opt/ws\_local/PERMITS\_SQL/1068920014\_1594470329.8/0/spring-rabbit-1-2-0-release-sources-2-jar/org/springframework/amqp/rabbit/connection/ChannelListener.java
- \* /opt/ws\_local/PERMITS\_SQL/1068920014\_1594470329.8/0/spring-rabbit-1-2-0-release-sources-2-jar/org/springframework/amqp/rabbit/core/ChannelAwareMessageListener.java
- \* /opt/ws\_local/PERMITS\_SQL/1068920014\_1594470329.8/0/spring-rabbit-1-2-0-release-sources-2-jar/org/springframework/amqp/rabbit/connection/ConnectionListener.java
- \* /opt/ws\_local/PERMITS\_SQL/1068920014\_1594470329.8/0/spring-rabbit-1-2-0-release-sources-2-jar/org/springframework/amqp/rabbit/connection/ConnectionProxy.java

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- \* /opt/ws\_local/PERMITS\_SQL/1068920014\_1594470329.8/0/spring-rabbit-1-2-0-release-sources-2-jar/org/springframework/amqp/rabbit/retry/MissingMessageIdAdvice.java
- \* /opt/ws\_local/PERMITS\_SQL/1068920014\_1594470329.8/0/spring-rabbit-1-2-0-release-sources-2-jar/org/springframework/amqp/rabbit/connection/ConsumerChannelRegistry.java
- \* /opt/ws\_local/PERMITS\_SQL/1068920014\_1594470329.8/0/spring-rabbit-1-2-0-release-sources-2-jar/org/springframework/amqp/rabbit/config/TopicExchangeParser.java
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\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/RuleSheetParserUtil.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/csv/CsvLineParser.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/RuleMatrixSheetListener.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/ExternalSpreadsheetCompiler.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/xls/NullSheetListener.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/InputType.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/RuleSheetListener.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/csv/CsvParser.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/DecisionTableParser.java  
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\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/SourceBuilder.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/package-info.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/DecisionTableProviderImpl.java  
\* /opt/cola/permits/1095510603\_1601467157.81/0/drools-decisiontables-6-5-0-final-sources-1-jar/org/drools/decisiontable/parser/LhsBuilder.java

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## 1.66 jackson-jaxrs-xml-provider 2.9.10

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## 1.67 grpc-context 1.9.0

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jar/org/drools/reteoo/nodes/ReteRuleTerminalNode.java  
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jar/org/drools/reteoo/common/ReteBeliefSystemFactory.java  
\* /opt/cola/permits/1095510662\_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/nodes/ReteQueryElementNode.java  
\* /opt/cola/permits/1095510662\_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/nodes/ReteAccumulateNode.java  
\* /opt/cola/permits/1095510662\_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/nodes/ReteLeftInputAdapterNode.java  
\* /opt/cola/permits/1095510662\_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/nodes/ReteNotNode.java  
\* /opt/cola/permits/1095510662\_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/common/ReteAgendaGroupQueueImpl.java  
\* /opt/cola/permits/1095510662\_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/beliefsystem/simple/ReteSimpleBeliefSystem.java  
\* /opt/cola/permits/1095510662\_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/nodes/ReteFromNode.java  
\* /opt/cola/permits/1095510662\_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/nodes/ReteEntryPointNode.java

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Found in path(s):

\* /opt/cola/permits/1095510662\_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/nodes/ReteSlidingTimeWindow.java

```
* /opt/cola/permits/1095510662_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/builder/ReteNodeFactory.java  
* /opt/cola/permits/1095510662_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/common/ReteAgendaFactory.java  
* /opt/cola/permits/1095510662_1601467122.9/0/drools-reteoo-6-5-0-final-sources-1-  
jar/org/drools/reteoo/nodes/ReteSlidingLengthWindow.java
```

## 1.70 aop-alliance 2.5.0-b05

## 1.71 aopalliance-repackaged 2.5.0-b05

### 1.71.1 Available under license :

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## 1.72 bouncycastle-fips 1.64

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Thanks, may your castles never deflate!

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Donors

<p>

The following people donated financially to help with the release of 1.63:

<br />

Joshua Hight

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The following people donated financially to help with the release of 1.61:

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Bihari Babu

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The following people donated financially to help with the release of 1.60:

<br />

Jens Neuhalfen and perillamint.

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The following people donated financially to help with the release of 1.59:

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Brian Reid.

</p>

<p>

The following people and organisations donated financially to help with the release of 1.57:

<br />

Joop Kaashoek and Pexus LLC.

</p>

<p>

We also wish to acknowledge financial and collaborative support from <a href="https://www.cisco.com/">CISCO</a> and additional financial support from <a href="https://www.primekey.com/">PrimeKey</a> towards developing the EST API for RFC 7030 support.

</p>

<p>

The following people and organisations donated financially to help with the release of 1.56:

<br />

DidiSoft, Cotiviti, Atanas Krachev, Encryptomatic LLC, LogicalAnswersIncSupporter

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The following people and organisations donated financially to help with the release of 1.55:

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Digistamp, RAM NAG

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The following people and organisations donated financially to help with the release of 1.54:

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The following people and organisations donated financially to help with the release of 1.53:

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Sheba, Ishmal Bartley, and Li-Chang Johnny Lo

</p>

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The following people and organisations donated financially to help with the release of 1.52:

<br />

lecker&#064buetterchen.de, Charles Proxy, Gunny Mills, Morgan Le Douget, Ben Whitaker, and Emilio Navarrete Lineros.

</p>

<p>

The following people and organisations donated financially to help with the release of 1.51:

<br />

Gup & Boz @ Alki Seattle, Bytemine GmbH, Ted Pennings, Atanas Krachev, PrimeKey Solutions AB, Martin Paljak, CorseraFri19980116, CPU Terminator, Lindsay Bradford, kares, Philius, and Aaron Anderson.

</p>

<p>

Organisations

</p>

<ul>

<li>Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!</li>

<li><a href="http://www.atlassian.com/">Atlassian Software Systems</a> donation of Confluence and JIRA licences.</li>

<li><a href="http://www.grierforensics.com/">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.</li>

<li>TU-Darmstadt, Computer Science Department, RBG, for the initial

lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA

implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof. Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.

</li>

<li>TU-Darmstadt, Computer Science Department, RBG, for the initial

Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed

by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at:

<a href="http://www.flexiprovider.de/">http://www.flexiprovider.de/</a>

</li>

<li>Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764),

and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a></li>

- <li><a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.</li>
- <li>Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.</li>
- <li><a href="https://www.microfocus.com/">Micro Focus</a> - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.</li>

<p>

People

- <li>Tito Pena &lt;Fortunato.Pena&#064;AdNovum.CH&gt; - initial RC5 implementation</li>
- <li>Michael Lee &lt;yfl&#064;mira.net&gt; - initial RC6 implementation, MD2 implementation</li>
- <li>Nuno Santos &lt;nsantos&#064;student.dei.uc.pt&gt; - finding toString bug in certificate object.</li>
- <li>Brett Sealey &lt;bretts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).</li>
- <li>Victor A. Salaman &lt;salaman&#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.</li>
- <li>Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).</li>
- <li>Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
- <li>Markus Niedermann &lt;markus.niedermann&#064;softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>
- <li>Mike Benham &lt;moxie&#064;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.</li>
- <li>Soren Hilmer &lt;hilmer&#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>
- <li>Uwe Guenther &lt;uwe&#064;csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.</li>
- <li>Markus Bradtke &lt;mab&#064;informatik.uni-kiel.de&gt; - fixing of a logic error in the JDKKeyStore class.</li>
- <li>Waclaw Sierak &lt;waclaw.sierak&#064;tpg.pl&gt; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.</li>
- <li>Ly-Na Phu &lt;lyna.phu&#064;init-consulting.de&gt; - assistance in the addition of ISO 9796-1 padding.</li>
- <li>Stefan K&ouml;psell &lt;sk13&#064;mail.inf.tu-dresden.de&gt; - making the jdk 1.1 version of the collections API available. For further details see <a href="http://sourceforge.net/projects/jcf/">http://sourceforge.net/projects/jcf/</a></li>

<li>Carmen Bastiaans &lt;cbastiaa&#064;microbits.com.au&gt; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>

<li>Tomas Gustavsson &lt;tomasg&#064;primekey.se&gt; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>

<li>Eugen Kuleshov &lt;euxx&#064;hotmail.com&gt; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>

<li>Megan Woods &lt;meganwoods&#064;sekurafire.com&gt; - initial implementation of ECIES.</li>

<li>Christian Geuer-Pollmann &lt;geuerp&#064;apache.org&gt; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.</li>

<li>Michael M&#252;hle &lt;michael&#064;mouling.de&gt; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>

<li>Michael Mansell &lt;me&#064;michaelmansell.com&gt; - fixing the parsing of the empty DER set in the ASN.1 library.</li>

<li>Eike Recker &lt;eike.recker&#064;gmx.de&gt; - fixing misspelling of provider reference for RSA/1 and RSA/2.</li>

<li>Chris Southern &lt;CSouthern&#064;baltimore.com&gt; - fixing misuse of specified provider in the PKCS10 certification request class.</li>

<li>Sidney Markowitz &lt;sidney&#064;sidney.com&gt; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>

<li>Chris Kerr &lt;ckerr&#064;filonet.ca&gt; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.</li>

<li>Mike Bean &lt;mbean&#064;lucentradius.com&gt; - fixing the fall through bug in the IV algorithm parameters class.</li>

<li>Martin Petraschek &lt;e9526225&#064;student.tuwien.ac.at&gt; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>

<li>Jess Garms &lt;jgarms&#064;yahoo.com&gt; - fixing 112/168 key size bug for DESede key generation.</li>

<li>Mike Bremford &lt;mike&#064;big.faceless.org&gt; - contributing the initial PKCS7 implementation.</li>

<li>Shankar Srinivasan &lt;ssr002&#064;yahoo.com&gt; - S/Mime interoperability testing and debugging.</li>

<li>Stef Hoeben &lt;ilsestef&#064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.</li>

<li>Klaudiusz Ciosk &lt;kciosk&#064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.</li>

<li>Thomas Houtekier &lt;Thomas.Houtekier&#064;tectrade.net&gt; - S/Mime testing and debugging. Interoperability with Biztalk.</li>

<li>Don Hillsberry &lt;hillsber&#064;dialcorp.com&gt; - S/Mime testing and debugging.</li>

<li>Kazuo Furuya &lt;kfuruya&#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.</li>

- <li>Jason Novotny &lt;jdnovotny&#064;lbl.gov&gt; - initial work on the openssl PEM processing.</li>
- <li>Joel Hockey &lt;joel.hockey&#064;qipayments.com&gt; - initial work on the openssl PEM processing.</li>
- <li>John Steenbruggen &lt;JohnS&#064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
- <li>Justin Chapweske &lt;justin&#064;chapweske.com&gt; - ordering patch for Tiger message digest.</li>
- <li>John Serock &lt;jserock&#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>
- <li>Sascha Weinreuter &lt;Sascha.Weinreuter&#064;cit.de&gt; - fixed SMIME saveChanges() bug.</li>
- <li>Andre Wehnert &lt;aw5&#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
- <li>Luigi Lo Iacono &lt;lo\_iacono&#064;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
- <li>Tim Sakach &lt;tsakach&#064;certivo.net&gt; - SMIME v2 compatibility patches.</li>
- <li>Marcus Povey &lt;mpovey&#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.</li>
- <li>Sebastian Clau&szlig; &lt;sc2&#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
- <li>Nicolas Bielza &lt;nicolas.bielza&#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>
- <li>Casey Marshall &lt;rsdio&#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.</li>
- <li>Rick Zeldes &lt;rick.zeldes&#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.</li>
- <li>Jarek Gawor &lt;gawor&#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>
- <li>Brett Neumeier &lt;random&#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>
- <li>Graham Coles &lt;graham.coles&#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
- <li>J&ouml;rn von Kattch&eacute;e &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
- <li>Matteo Artuso &lt;matartuso&#064;libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>
- <li>Julian Morrison &lt;julian&#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
- <li>Elmar Sonnenschein &lt;eso&#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
- <li>J&ouml;rn Schwarze &lt;JSchwarze&#064;ulc.de&gt; - Locale fix for the clean room JCE.</li>
- <li>Bryan Lovquist &lt;bkl&#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>
- <li>Artem Portnoy &lt;Artem\_Portnoy&#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
- <li>Michael H&auml;usler &lt;haeusler&#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
- <li>Johan Seland &lt;johans&#064;netfonds.no&gt; - general toString for BigInteger class.</li>
- <li>Johannes Nicolai &lt;johannes.nicolai&#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
- <li>Marc Doberva &lt;marc.doberva&#064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
- <li>Jan Dvorak &lt;jan.dvorak&#064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>
- <li>Joe Cohen &lt;jcohen&#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in

DERInputStream into what it should have been.</li>

<li>Chris Long &lt;a href="mailto:along@ece.cmu.edu">along@ece.cmu.edu</a>; - adding public key decoding to PEMReader.</li>

<li>Hes Siemelink &lt;a href="mailto:hes@izecom.com">hes@izecom.com</a>; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>

<li>Stefan Puiu &lt;a href="mailto:stefanpuiu@yahoo.com">stefanpuiu@yahoo.com</a>; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>

<li>Kaiser Yang &lt;a href="mailto:kaiseryang@yahoo.com">kaiseryang@yahoo.com</a>; - Finding BigInteger loop problem in prime generation.</li>

<li>Jiri Urbanec &lt;a href="mailto:jiri.urbanec@logicacmg.com">jiri.urbanec@logicacmg.com</a>; - patch to fix defect in DERBMPString.equals().</li>

<li>Justin Kolb &lt;a href="mailto:jkolb@pristx.com">jkolb@pristx.com</a>; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>

<li>Ralf Hauser &lt;a href="mailto:ralfhauser@gmx.ch">ralfhauser@gmx.ch</a>; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>

<li>Michal Dvorak &lt;a href="mailto:M\_Dvorak@kb.cz">M\_Dvorak@kb.cz</a>; - getNextUpdate patch for OCSP SingleResp.</li>

<li>Klaus Greve Fiorentini &lt;a href="mailto:Klaus@cpqd.com.br">Klaus@cpqd.com.br</a>; - array fix in PGP PublicKeyEncSessionPacket.</li>

<li>Olivier Refalo &lt;a href="mailto:Olivier\_Refalo@fpl.com">Olivier\_Refalo@fpl.com</a>; - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>

<li>Mariusz Bandola &lt;a href="mailto:mariusz.bandola@cryptotech.com.pl">mariusz.bandola@cryptotech.com.pl</a>; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaying with general objects in sequences.</li>

<li>Brien Oberstein &lt;a href="mailto:brien.oberstein@transacttools.net">brien.oberstein@transacttools.net</a>; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>

<li>Ian Haywood &lt;a href="mailto:ian@haywood.bpa.nu">ian@haywood.bpa.nu</a>; - addition of getSignatureType to PGPSignature.</li>

<li>Jonathan Edwards &lt;a href="mailto:s34gull@mac.com">s34gull@mac.com</a>; - initial support for reading multiple rings from a PGP key file.</li>

<li>Andrew Thornton &lt;a href="mailto:andrew@caret.cam.ac.uk">andrew@caret.cam.ac.uk</a>; - patch for RSA PUBLIC KEY in PEMReader.</li>

<li>Gregor Leander &lt;a href="mailto:gl@bos-bremen.de">gl@bos-bremen.de</a>; - initial parsing of multiple sequence entries in an X.509 Name.</li>

<li>Antoon Bosselaers &lt;a href="mailto:Antoon.Bosselaers@esat.kuleuven.ac.be">Antoon.Bosselaers@esat.kuleuven.ac.be</a>; - help with RipeMD320 implementation.</li>

<li>Peter Sylvester &lt;a href="mailto:Peter.Sylvester@edelweb.fr">Peter.Sylvester@edelweb.fr</a>; - improvements to the ASN.1 BasicConstraints object.</li>

<li>Doug &lt;a href="mailto:ummmmm@myrealbox.com">ummmmm@myrealbox.com</a>; - addition of isEncryptionKey method to OpenPGP public keys.</li>

<li>Francois Staes &lt;a href="mailto:fstaes@netconsult.be">fstaes@netconsult.be</a>; - improvements to DEBitString, DERGeneralizedTime and initial implementation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>

<li>W.R. Dittmer &lt;a href="mailto:wdittmer@cs.vu.nl">wdittmer@cs.vu.nl</a>; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPKeyPair to fix nullpointer exception.</li>

<li>Perez Paz Luis Alberto &lt;a href="mailto:laperez@banxico.org.mx">laperez@banxico.org.mx</a>; - patch to use of BitString in X.509 name.</li>

<li>James Wright &lt;a href="mailto:James\_Wright@harte-hanks.com">James\_Wright@harte-hanks.com</a>; - patches for dealing with "odd" ArmoredInputStreams.</li>

<li>Jim Ford &lt;a href="mailto:jim@muirford.com">jim@muirford.com</a>; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>

<li>Michael Hausler &lt;a href="mailto:haeusler@ponton-consulting.de">haeusler@ponton-consulting.de</a>; - extra aliases for provider.</li>

<li>Sai Pullabhotla &lt;a href="mailto:psai@linoma.com">psai@linoma.com</a>; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>

- <li>Joseph Miller &lt;joseph&#064digiweb.net.nz&gt; - addition of ZeroBytePadding.</li>
- <li>Lars &lt;xyz&#064sagemdenmark.dk&gt; - patch to explicit padded mode for CBC block cipher MAC.</li>
- <li>Jeroen van Vianen &lt;jeroen&#064vanvianen.nl&gt; - the Signed and Encrypted mail example.</li>
- <li>Jun Sun &lt;JSun&#064diversinet.com&gt; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
- <li>Petr Dukem &lt;pdukem&#064email.cz&gt; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
- <li>Filipe Silva &lt;filipe.silva&#064wedoconsulting.com&gt; - patch to fix overread issue in BCPGInputStream.</li>
- <li>Alpesh Parmar &lt;alps&#064linuxmail.org&gt; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
- <li>Jay Gengelbach &lt;jengelbach&#064webmethods.com&gt; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
- <li>Doug &lt;doug&#064tigerprivacy.com&gt; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
- <li>Matthew Mundy &lt;mmundy1&#064umbc.edu&gt; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>
- <li>Tom Cargill &lt;cargill&#064profcon.com&gt; - spelling patch in provider.</li>
- <li>Breitenstrom Christian &lt;C.Breitenstrom&#064t-systems.com&gt; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
- <li>Zanotti Mirko &lt;zanotti&#064cad.it&gt; - patch to ordered equality test for X509Name.</li>
- <li>Nicola Scandoni &lt;nscandoni&#064babelps.it&gt; - patch to add sorting to CertPath validation.</li>
- <li>Ville Skytt&#064iki.fi&gt; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
- <li>Bruce Gordon &lt;bruce.gordon&#064savvis.net&gt; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
- <li>Miles Whiteley &lt;Miles.Whiteley&#064savvis.net&gt; - "223" fix for BCPGInputStream new packets.</li>
- <li>Albert Moliner &lt;amoliner&#064evintia.com&gt; - initial TSP implementation.</li>
- <li>Carlos Lozano &lt;carlos&#064evintia.com&gt; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
- <li>Javier Delgadillo &lt;javi&#064javi.codewarp.org&gt; - initial Mozilla PublicKeyAndChallenge classes.</li>
- <li>Joni Hahkala &lt;joni.hahkala&#064cern.ch&gt; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egree.org">EGEE project</a> for making the work available.</li>
- <li>Rolf Schillinger&lt;rolf&#064sir-wum.de&gt; - initial implementation of Attribute Certificate generation.</li>
- <li>Sergey Bahtin &lt;Sergey\_Bahtin&#064yahoo.com&gt; - fix for recovering certificate aliases in BKS and UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>
- <li>Franck Leroy &lt;Franck.Leroy&#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>
- <li>Atsuhiko Yamanaka &lt;ymnk&#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>
- <li>Nickolay Bolshackov &lt;tyrex&#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>
- <li>Soren Hilmer &lt;soren.hilmer&#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>
- <li>Steve Mitchell &lt;mitchell&#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow

BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>

<li>Dirk Eisner &lt;D.Eisner&#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li>

<li>Julien Pasquier &lt;julienpasquier&#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>

<li>Matteo &lt;matartuso&#064libero.it&gt; - sequence patch to ASN1Dump.</li>

<li>Andrew Paterson &lt;andrew.paterson&#064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>

<li>Vladimir Molotkov &lt;vladimir.n.molotkov&#064intel.com&gt; - extensive provider exception handling compliance testing.</li>

<li>Florin Kollan &lt;adlocflo&#064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>

<li>Pavel Vassiliev &lt;paulvas&#064gmail.com&gt; - Initial GOST28147Mac implementation.</li>

<li>Tom Pesman &lt;tom&#064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>

<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk&#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>

<li>Arndt Hasch &lt;Arndt.Hasch&#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>

<li>Fix Bernd (KCDP 11) &lt;bernd.fix&#064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>

<li>David M. Lee &lt;dmlee&#064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>

<li>Mike Dillon &lt;md5&#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>

<li>tu-vi cung &lt;t2cung&#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>

<li>Chris Schultz &lt;cschultz&#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>

<li>David M. Lee &lt;dmlee&#064Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>

<li>Joel Rees &lt;rees&#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>

<li>Francesc Sau &lt;francesc.sau&#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>

<li>Larry Bugbee &lt;bugbee&#064mac.com&gt; - initial ECNR implementation.</li>

<li>Remi Blancher &lt;Remi.Blancher&#064keynectis.com&gt; - Contributions to TSP implementation. Initial implementation of RFC 3739 and ICAO ASN.1 classes.</li>

<li>Brian O'Rourke &lt;brianorourke&#064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>

<li>Andreas Schwier &lt;andreas.schwier&#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>

<li>David Josse &lt;david.josse&#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>

<li>Kishimoto Kazuhiko &lt;kazu-k&#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>

<li>Lawrence Tan &lt;lwrnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in

JDKKeyFactory.</li>

<li>Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>

<li>Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>

<li>Olaf Keller, &lt;olaf.keller.bc&#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>

<li>J&ouml;rg Eichhorn &lt;eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>

<li>Karsten Ohme &lt;widerstand&#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li>

Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.

CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>

<li>Carlos Lozano Ruiz &lt;carlos&#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>

<li>John Alfred Prufrock &lt;j.a.prufrock&#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>

<li>Stefan Neusatz Guilhen &lt;sneusatz&#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>

<li>Marzio Lo Giudice &lt;marzio.logiudice&#064gmail.com&gt; - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.</li>

<li>Georg Lippold &lt;georg.lippold&#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>

<li>Chris Viles &lt;chris\_viles&#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>

<li>Pasi Eronen &lt;Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>

<li>Lijun Liao &lt;https://github.com/xipki&gt; performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.</li>

<li>Maria Ivanova &lt;maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>

<li>Armin H&auml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>

<li>Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>

<li>Xavier Le Vourch &lt;xavier&#064brittanysoftware.com&gt; - general code clean ups.</li>

<li>Erik Tews &lt;e\_tews&#064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding</li>

<li>Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC,

and Noekeon. XTEA enhancements.</li>  
<li>Frank Cornelis &lt;info@#064frankcornelis.be&gt;- addition of crlAccessMethod in X509ObjectIdentifiers.</li>  
<li>Rui Joaquim &lt;rjoaquim@#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>  
<li>David Stacey &lt;DStacey@#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>  
<li>Martijn Brinkers &lt;list@#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>  
<li>Julius Davies &lt;juliusdavies@#064gmail.com&gt; - additional modes and algorithm support in PEMReader</li>  
<li>Matthias &lt;g@#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>  
<li>Olga K&uuml;thler &lt;olga.kaethler@#064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>  
<li>Germano Rizzo &lt;germano.rizzo@#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>  
<li>N&uacute;ria Mar&iacute; &lt;numaa@#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>  
<li>Janis Schuller &lt;js@#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>  
<li>Michael Samblanet &lt;mike@#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>  
<li>Mike StJohns &lt;mstjohns@#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>  
<li>Ramon Keller &lt;ramon.keller@#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>  
<li>Mark Nelson &lt;mark@#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>  
<li>Eugene Golushkov &lt;eugene\_gff@#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>  
<li>Julien Pasquier &lt;julienpasquier@#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>  
<li>Peter Knopp &lt;pknopp@#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>  
<li>Jakub Gwozdz &lt;gwozdziu@#064rpg.pl&gt; - addition of getTsa() to TimestampTokenInfo.</li>  
<li>Bartosz Malkowski &lt;bmalkow@#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>  
<li>Tal Yacobi &lt;tal.yacobi@#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>  
<li>Massimiliano Ziccardi &lt;massimiliano.ziccardi@#064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>  
<li>Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>  
<li>J Ross Nicoll &lt;jrn@#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>  
<li>Matthew Stevenson &lt;mavricknz@#064yahoo.com&gt; - patch to construtor for CRMF CertSequence.</li>  
<li>Gabriele Contini &lt;gcontini@#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>  
<li>Roelof Naude &lt;roelof.naude@#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.</li>  
<li>Patrick Peck &lt;peck@#064signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>

<li>Michael LeMay &lt;lemaymd&#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>  
<li>Alex Dupre &lt;ale&#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]</li>  
<li>Michael Schoene &lt;michael&#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>  
<li>Ion Larra&ntilde;aga &lt;ilarra&#064s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.</li>  
<li>Bob Kerns &lt;bob.kerns&#064positscience.com&gt; fix to hashCode for X509CertificateObject.</li>  
<li>Stefan Meyer &lt;stefan.meyer&#064ewe.de&gt; backport for PKIXCertPathValidator and SMIMESignedMailReviewer.</li>  
<li>Robert J. Moore &lt;Robert.J.Moore&#064allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>  
<li>Rui Hodai &lt;rui&#064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>  
<li>Emir Bucalovic &lt;emir.bucalovic&#064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Torbjorn Svensson &lt;tobbe79&#064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>  
<li>Paul FitzPatrick &lt;bouncycastle\_pfitz&#064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>  
<li>Henrik Andersson &lt;k.henrik.andersson&#064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>  
<li>Cagdas Cirit &lt;cagdasirit&#064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>  
<li>Harakiri &lt;harakiri\_23&#064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>  
<li>Pedro Henriques &lt;pmahenriques&#064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.</li>  
<li>Lothar Kimminger &lt;job&#064kimminger.de&gt; verbose mode for ASN1Dump, support for DERExternal, DNS performance fix for S/MIME API.</li>  
<li>Richard Farr &lt;rfarr.se&#064gmail.com&gt; initial SRP-6a implementation.</li>  
<li>Thomas Castiglione &lt;castiglione&#064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>  
<li>Elisabetta Romani &lt;eromani&#064sogei.it&gt; patch for recognising multiple counter signatures.</li>  
<li>Robin Lundgren &lt;r737lundgren&#064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>  
<li>Petr Kadlec &lt;mormegil&#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>  
<li>Andreas Antener &lt;antener\_a&#064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>  
<li>Harendra Rawat &lt;hsrawat&#064yahoo.com&gt; fix for BERConstructedOctetString.</li>  
<li>Rolf Lindemann &lt;lindemann&#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible attribute specifications [#BMA-42].</li>  
<li>Alex Artamonov &lt;alexart.home&#064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>  
<li>Mike Lyons &lt;mlyons&#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>  
<li>Chris Cole &lt;chris\_h\_cole&#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>  
<li>Tomas Krivanek &lt;tom&#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>  
<li>Michael &lt;emfau&#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>  
<li>Trevor Perrin &lt;trevor&#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>

- <li>Markus Kil &lt;markus@primekey.se>; several enhancements to TimeStampResponseGenerator.</li>
- <li>Dario Novakovic &lt;darionis@yahoo.com>; fix for NPE when checking revocation reason on CRL without extensions.</li>
- <li>Michael Smith &lt;msmith@cbnco.com>; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>
- <li>Andrea Zilio &lt;andrea.zilio@gmail.com>; fix for PEM password encryption of private keys.</li>
- <li>Alex Birkett &lt;alex@birkett.co.uk>; added support for EC cipher suites in TLS client (RFC 4492) [BJA-291].</li>
- <li>Wayne Grant &lt;waynedgrant@gmail.com>; additional OIDs for PKCS10 and certificate generation support.</li>
- <li>Frank Cornelis &lt;info@frankcornelis.be>; additional support classes for CAdES, enhancements to OCSP classes.</li>
- <li>Jan Dittberner &lt;jan@dittberner.info>; addHeader patch for SMIME generator.</li>
- <li>Bob McGowan &lt;boab.mcgoo@btinternet.com>; patch to support different object and mgf digests in PSS signing.</li>
- <li>Ivo Matheis &lt;i.matheis@seeburger.de>; fix to padding verification in ISO-9796-1.</li>
- <li>Marco Sandrini &lt;nessche@gmail.com>; patch to add IV to ISO9797Alg3Mac.</li>
- <li>Alf Malf &lt;alfilmalf@hotmail.com>; removal of unnecessary limit in CMSContentInfoParser.</li>
- <li>Alfonso Massa &lt;alfonso.massa@insiel.it>; contributions to CMS time stamp classes.</li>
- <li>Giacomo Boccardo &lt;gboccardo@unimaticaspa.it>; initial work on CMSTimeStampedDataParser.</li>
- <li>Arnis Tartu &lt;arnis@ut.ee>; patches for dealing with OIDs with specific key sizes associated in CMS.</li>
- <li>Janusz Sikociski &lt;J.Sikocinski@gdzie.pl>; addition of Features subpacket support to OpenPGP API.</li>
- <li>Juri Hudolejev &lt;jhudolejev@gmail.com>; JavaDoc fix to CMSSignedDataParser.</li>
- <li>Liane Velten &lt;liane.velten@hjp-consulting.com>; fine tuning of code for DHParameters validation.</li>
- <li>Shawn Willden &lt;swillden@google.com>; additional functionality to PGPKKeyRing.</li>
- <li>Atanas Krachev &lt;akrachev@gmail.com>; added support for revocation signatures in OpenPGP.</li>
- <li>Mickael Laiking &lt;mickael.laiking@keynectis.com>; initial cut of EAC classes.</li>
- <li>Tim Buktu &lt;tbuktu@hotmail.com>; Initial implementation of NTRU signing and encryption.</li>
- <li>Bernd &lt;rbernd@gmail.com>; Fix for open of PGP literal data stream with UTF-8 naming.</li>
- <li>Steing Inge Morisbak &lt;stein.inge.morisbak@BEKK.no>; Test code for lower case Hex data in PEM headers.</li>
- <li>Andreas Schmid &lt;andreas.schmid@tngtech.com>; Additional expiry time check in PGPPublicKeys.</li>
- <li>Phil Steitz &lt;phil.steitz@gmail.com>; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
- <li>Ignat Korchagin &lt;ignat.korchagin@gmail.com>; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
- <li>Petar Petrov &lt;p.petrov@bers-soft.com>; Testing and debugging of UTF-8 OpenPGP passwords.</li>
- <li>Daniel Fitzpatrick &lt;daniel.f.nwr@gmail.com>; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
- <li>Andy Neilson &lt;Andy.Neilson@quest.com>; a further patches to deal with multiple providers and PEMReader.</li>

<li>Ted Shaw <a href="mailto:xiao.xj@gmail.com">xiao.xj@gmail.com</a>; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>

<li>Eleriseth <a href="mailto:Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lv2EUVW99v3yNV3IWROG8.fms">Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lv2EUVW99v3yNV3IWROG8.fms</a>; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>

<li>Kenny Root <a href="mailto:kenny@the-b.org">kenny@the-b.org</a>; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>

<li>Maarten Bodewes <a href="mailto:maarten.bodewes@gmail.com">maarten.bodewes@gmail.com</a>; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>

<li>Philip Clay <a href="mailto:pilf\_b@yahoo.com">pilf\_b@yahoo.com</a>; Initial implementation of J-PAKE.</li>

<li>Brian Carlstrom <a href="mailto:bdc@carlstrom.com">bdc@carlstrom.com</a>; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>

<li>Samuel Lid&eacute;n Borell <a href="mailto:samuel@primekey.se">samuel@primekey.se</a>; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>

<li>Sergio Demian Lerner <a href="mailto:sergiolerner@certimix.com">sergiolerner@certimix.com</a>; pointing out isInfinity issue in ECDSASigner signature verification.</li>

<li>Tim Whittington <a href="mailto:Tim.Whittington@orionhealth.com">Tim.Whittington@orionhealth.com</a>; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>

<li>Marcus Lundblad <a href="mailto:marcus.lundblad@primekey.se">marcus.lundblad@primekey.se</a>; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimeStampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>

<li>Andrey Zhozhin <a href="mailto:zhozhin@xrm.ru">zhozhin@xrm.ru</a>; patch for override of TSP SignerInfo attributes.</li>

<li>Sergey Tiunov <a href="mailto:t5555d@gmail.com">t5555d@gmail.com</a>; initial cut of DVCS classes.</li>

<li>Damian Kolasa <a href="mailto:fatfredyy@gmail.com">fatfredyy@gmail.com</a>; ASN1Sequence patch for class cast issue in X9Curve.</li>

<li>Ash Hughes <a href="mailto:ashley.hughes@blueyonder.co.uk">ashley.hughes@blueyonder.co.uk</a>; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>

<li>Daniel Hirscher <a href="mailto:dev@daniel-hirscher.de">dev@daniel-hirscher.de</a>; patch to support parsing of explicit EC parameters in PEM files.</li>

<li>Daniele Ricci <a href="mailto:daniele.athome@gmail.com">daniele.athome@gmail.com</a>; initial implementation of EC keys for OpenPGP and RFC6637 support.</li>

<li>Matti Aarnio <a href="mailto:matti.aarnio@methics.fi">matti.aarnio@methics.fi</a>; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>

<li>Babak Najafi <a href="mailto:bnajafi@akamai.com">bnajafi@akamai.com</a>; fixes to OpenPGP NotationData to prevent truncation problems.</li>

<li>Eric Mueller <a href="mailto:eric.mueller@sage.de">eric.mueller@sage.de</a>; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>

<li>Mathias Herberts <a href="mailto:Mathias.Herberts@gmail.com">Mathias.Herberts@gmail.com</a>; fix to inOff usage in RFC3394WrapEngine.</li>

<li>Daniil Ivanov <a href="mailto:daniil.ivanov@gmail.com">daniil.ivanov@gmail.com</a>; addition of provider support for GOST HMAC SecretKeyFactory.</li>

- <li>Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>
- <li>Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>
- <li>Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>
- <li>AxelVDB &lt;axel-vdb&#064riseup.net&gt; initial implementation of Shacal2.</li>
- <li>Roberto Tyley &lt;&gt; further work on completing gradle build.</li>
- <li>Waldemar Dick &lt;wdick&#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>
- <li>Sid Steward &lt;sid.steward&#064pdflabs.com&gt; code improvements to ASN1Boolean.</li>
- <li>Alex Klyubin &lt;klyubin&#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>
- <li>Jonathan Gillett &lt;gsoc.student&#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>
- <li>Andreas Reiter &lt;andreas.reiter&#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>
- <li>Kieran Miller &lt;kieran.miller&#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>
- <li>Oliver Ehli&lt;ehli&#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>
- <li>Daniel Heldt&lt;Daniel.Heldt&#064cryptovision.com&gt; Initial support for encodable state message digests</li>
- <li>Robert Bushman &lt;bouncycastle&#064traxel.com&gt; Clean up of DirectKeySignature example.</li>
- <li>Maurice Aarts&lt;aarts&#064riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>
- <li>Franziskus Kiefer&lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>
- <li>KB Sriram&lt;mail\_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>
- <li>Marco Schulze&lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>
- <li>Martin Schaefer&lt;https://github.com/martinschaefer&gt; contributed a code-cleanup patch.</li>
- <li>dstutz&lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>
- <li>Tobias Wich&lt;tobias.wich&#064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>
- <li>Hauke Mehrtens&lt;hauke&#064hauke-m.de&gt; TLS patch to add ECDHE\_ECDSA CCM ciphersuites from RFC 7251.</li>
- <li>Daniel Zimmerman&lt;dmz&#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>
- <li>Jens Kapitzka&lt;j.kapitzka&#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>
- <li>Johan Eklund&lt;johan&#064primekey.se&gt; update to RFC 6960 for OCSPObjectIdentifiers.</li>
- <li>nikosn&lt;https://github.com/nikosn&gt; Fix to encoding of EC private keys to ensure encoding matches order length.</li>
- <li>Axel von dem Bruch &lt;axel-vdb&#064riseup.net&gt; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>
- <li>Derek Atkins &lt;derek&#064ihtfp.com&gt; Documentation fixes to X9ObjectIdentifiers.</li>
- <li>Peter Jr Halicky &lt;peto&#064halicky.sk&gt; Correction to notification/error message handling in SignedMailValidator.</li>
- <li>lartiguePierre&lt;https://github.com/lartiguePierre&gt; Fix for counter signature SID in CMSSignedData.</li>
- <li>Thomas Belot&lt;thomas.belot+BC&#064gmail.com&gt; initial CertPathLoopTest for demonstrating stack overflow issue.</li>

- <li>Rich DiCrocce<lt;https://github.com/rdicroce>> Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>
- <li>Bj&ouml;rn Kautler<lt;https://github.com/Vampire>> Refinements to cert path validation (authority key addition, certificate order preservation).</li>
- <li>Dominik Sch&uuml;rmann<lt;https://github.com/dschuermann>> method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPSecretKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>
- <li>Michael &lt;MSKnete&#064web.de>> initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>
- <li>Tobias Wagner &lt;tobias.wagner&#064n-design.de>> Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>
- <li>Sergio Giro &lt;sgiro&#064google.com>> Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>
- <li>bschuette<lt;https://github.com/bschuette>> Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>
- <li>Leonard Dallot<lt;https://github.com/dallotTazTag>> Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>
- <li>Jan Willem Janssen &lt;j.w.janssen+bouncycastle&#064lxtreme.nl>> Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>
- <li>Sebastian Oerding &lt;sebastian.oerding@robotron.de>> Fixes to toString() in x509.CertificatePolicies.</li>
- <li>Kai Kramer &lt;kai.kramer&#064gmail.com>> Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>
- <li>Benoit Charles &lt;benoit.charles&#064opentrust.com>> Fix for IES data length check on decryption.</li>
- <li>Niko &lt;nfink95&#064gmail.com>> fix to cast issue in getOutputSize() for ECIES.</li>
- <li>akwizgran<lt;https://github.com/akwizgran>> Fixed clone of key in Blake2bDgest copy constructor, blake2b reset issue for variant keys.</li>
- <li>Matthias Edelhoff &lt;Matthias.Edelhoff&#064cryptovision.com>> BasicConstraintsValidation pathlen fix in PKIX certpath classes.</li>
- <li>Lukasz Deputat &lt;lukasz.deputat&#064gmail.com>> Fixed bugs in TlsUtils read methods [#BJA-592].</li>
- <li>Justin Ludwig &lt;https://github.com/justinludwig>> Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>
- <li>Andr&eacute; Berenguel &lt;https://github.com/aberenguel>> Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi</li>
- <li>Slawomir Jaranowski<lt;https://github.com/slawekjaranowski>> Patch to make cipher/hash/signature name methods in PGP internal API public.</li>
- <li>Andrey Vasilyev<lt;https://github.com/andrey-vasilyev>> Initial implementation of GOST R 34.11-2012.</li>
- <li>William Glanton &lt;wglanton77&#064gmail.com>> Fixed bug in Poly1305 [#BJA-620].</li>
- <li>jdvorak001<lt;https://github.com/jdvorak001>> Speed improvements for ASN.1 ObjectIdentifier cache.</li>
- <li>Joseph Naegele &lt;jnaegele&#064grierforensics.com>> Patch for handling multiple certificates in a DANE SMIMEA entry.</li>
- <li>Andrew Bonventre<lt;https://github.com/andybons>> NullPointer patch for WNafUtil.</li>
- <li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof>> defect analysis and additional test cases for the provider.</li>
- <li>Gorka Irazoqui &lt;girazoki&#064wpi.edu>> from Intel Security Center of Excellence &lt;https://security-center.intel.com/>> detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>

- <li>Joerg Senekowitsch &lt;joerg.senekowitsch@veridos.com>; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>
- <li>Alexandr Krivoshta &lt;wipe@ya.ru>; N4 calculation fix to GOFB mode.</li>
- <li>Artem Storozhuk &lt;storojs72@gmail.com>; N4 calculation fix to GOFB mode.</li>
- <li>Na Yu &lt;na.yu@samsung.com>; Constructor patches to CMC PKIData.</li>
- <li>Evangelos Karatsiolis &lt;ekaratsiolis@mtg.de>; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>
- <li>VivleSoren &lt;https://github.com/VivleSoren>; additional constructor for McElieceCCA2PrivateKeyParameters.</li>
- <li>mtausig &lt;https://github.com/mtausig>; JavaDoc fix for MCSEncryptedDataGenerator.</li>
- <li>Anders Schack-Mulligen &lt;https://github.com/aschackmull>; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.</li>
- <li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland@stud.tu-darmstadt.de>; Initial XMSS/XMSS-MT implementation.</li>
- <li>didisoft &lt;https://github.com/didisoft>; test code for PGP signature removal involving user ids.</li>
- <li>Mike Safonov&lt;https://github.com/MikeSafonov>; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>
- <li>Artem Storozhuk &lt;storojs72@gmail.com>; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>
- <li>Andreas Glaser &lt;andreas.glaser@gi-de.com>; patch to recognise ANSSI curves for PKCS#10 requests.</li>
- <li>codeborne &lt;https://github.com/cbpx>; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>
- <li>FauxFaux &lt;https://github.com/FauxFaux>; patch for JDK 1.9 update to DRBG.java.</li>
- <li>4garbage &lt;https://github.com/4garbage>; patch to allow GOST3410-94 private keys encoded as integers.</li>
- <li>ekszz &lt;https://github.com/ekszz>; corrections to SM2 signer to include default identity value.</li>
- <li>jminer &lt;https://github.com/jminer>; fix to Blake2b for hashes in range of 2\*\*64-127 to 2\*\*64.</li>
- <li>str4d &lt;https://github.com/str4d>; initial implementation of Blake2s</li>
- <li>Scott Woodward &lt;scott@bit3consulting.com>; performance fixes for CTRSP800DRBG.</li>
- <li>David Strawn &lt;https://github.com/isomarcte>; fix for off by one error in SCRYPT bounds checking.</li>
- <li>chris mccown &lt;0xchrismccown@gmail.com>; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>
- <li>ZZMarquis &lt;https://github.com/ZZMarquis>; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>
- <li>Andreas Kretschmer &lt;https://github.com/Akretsch>; NPE fix for CertTemplate.getVersion()</li>
- <li>Armin Lunkeit, Michael Tautenhahn &lt;>; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
- <li>Vincent Breitmoser &lt;https://github.com/Valodim>; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
- <li>Adam Vartanian &lt;https://github.com/flooeey>; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
- <li>Bernd &lt;https://github.com/ecki>; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>
- <li>Shartung &lt;https://github.com/shartung>; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
- <li>Paul Schaub &lt;https://github.com/vanitasvitae>; bringing PGPSecretKey.getUserIds() into line with

PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>

<li>Nick of Nexxar &lt;https://github.com/nros&gt; update to OpenPGP package to handle a broader range of EC curves.</li>

<li>catbref &lt;https://github.com/catbref&gt; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>

<li>gerlion &lt;https://github.com/gerlion&gt; detection of concurrency issue with pre-1.60 EC math library.</li>

<li>fgrieu &lt;fgrieu@#064gmail.com&gt; identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.</li>

<li>MTG &lt;https://github.com/mtgag&gt; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>

<li>Andreas Gadermaier &lt;up.gadermaier@#064gmail.com&gt; initial version of Argon2 PBKDF algorithm.</li>

<li>Tony Washer &lt;tony.washer@yahoo.co.uk&gt; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>

<li>Vincent Bouckaert &lt;https://github.com/veebee&gt; initial version of RFC 4998 ASN.1 classes.</li>

<li>Tony Washer &lt;https://github.com/tonywasher&gt; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>

<li>Aurimas Liutikas &lt;https://github.com/liutikas&gt; JavaDoc patches to ReasonsMask.</li>

<li>Gabriel Sroka &lt;https://github.com/gabrielsroka&gt; corrected comments in RSA validation.</li>

<li>sarah-mdv &lt;https://github.com/sarah-mdv&gt; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>

<li>Jesse Feinman &lt;https://github.com/jessefeinman&gt; performance optimisation in RSAKeyParameters.</li>

<li>Gilis95 &lt;https://github.com/Gilis95&gt; improved JSSE compatibility for setEnabledCipherSuites.</li>

<li>Haemin Yoo &lt;https://github.com/yoohaemin&gt; Javadoc fixes.</li>

<li>Antoine Toulme &lt;https://github.com/atoulme&gt; Initial implementation of EthereumIESEngine.</li>

<li>Golden Looly &lt;https://github.com/looly&gt; Patch for addition of C1C3C2 mode to SM2Engine.</li>

<li>Moses Palm&acute;r, TrueSec &lt;Henrik.Palmer@#064truesec.se&gt; Additional improvements to constant time comparisons.</li>

<li>Ren&eacute; Korthaus&lt;https://github.com/securitykernel&gt; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>

<li>THausherr&lt;https://github.com/THausherr&gt; Addition generic support for CMS/TSP functions.</li>

<li>Gaylor Bosson&lt;https://github.com/Gilthoniel&gt; Initial implementation of Blake2xs.</li>

<li>gaellalire&lt;https://github.com/gaellalire&gt; Patch for unprotected PGP private keys as SExpr.</li>

<li>im-scooter&lt;https://github.com/im-scooter&gt; Patch for case-insensitive behaviour of Param-Z.</li>

<li>Nick hitchan&lt;https://github.com/hitchan&gt; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>

<li>dbusche&lt;https://github.com/dbusche&gt; Argon2 optimisations.</li>

<li>Daniel Heldt&lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>

<li>Ugochukwu Mmaduekwe&lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>

<li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>

<li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>

<li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>

<li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>

<li>Tobias Ospelt &lt;tobias@#064pentagrid.ch&gt; Identification of 1.63 regression in ASN.1 parsing.</li>

</ul>  
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## 1.73 swagger-core 1.5.0

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```

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## 1.80 spring-aspects 4.3.19.RELEASE

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Version: 1.2

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Status: Maintenance Release

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# 1.83 json-java 20160810

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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#### Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

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#### Apache

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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#### MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.85 spring-security-taglibs 3.2.4.RELEASE

## 1.86 asm 4.2

## 1.87 jackson 2.10.4

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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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# 1.88 log4j-over-slf4j 1.7.25

# 1.89 jboss-logging 3.1.3.GA

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## 1.93 jersey-bean-validation 2.24.1

## 1.94 nimbus-jose-jwt 4.41.3

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## 1.102 cglib-nodep 3.1

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# 1.104 bouncy-castle 1.64

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The following organisations and people have contributed to the Bouncy Castle Cryptography Package.

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Donors

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The following people donated financially to help with the release of 1.63:

<br />

Joshua Hight

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<p>

The following people donated financially to help with the release of 1.61:

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Bihari Babu

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<p>

The following people donated financially to help with the release of 1.60:

<br />

Jens Neuhalfen and perillamint.

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<p>

The following people donated financially to help with the release of 1.59:

<br />

Brian Reid.

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<p>

The following people and organisations donated financially to help with the release of 1.57:

<br />

Joop Kaashoek and Pexus LLC.

</p>

<p>

We also wish to acknowledge financial and collaborative support from <a

href="https://www.cisco.com/">CISCO</a> and additional financial support from <a

href="https://www.primekey.com/">PrimeKey</a> towards developing the EST API for RFC 7030 support.

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<p>

The following people and organisations donated financially to help with the release of 1.56:

<br />

DidiSoft, Cotiviti, Atanas Krachev, Encryptomatic LLC, LogicalAnswersIncSupporter

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<p>

The following people and organisations donated financially to help with the release of 1.55:

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Digistamp, RAM NAG

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The following people and organisations donated financially to help with the release of 1.54:

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Lobster GmbH

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The following people and organisations donated financially to help with the release of 1.53:

<br />

Sheba, Ishmal Bartley, and Li-Chang Johnny Lo

</p>

<p>

The following people and organisations donated financially to help with the release of 1.52:

<br />

lecker&#064buetterchen.de, Charles Proxy, Gunny Mills, Morgan Le Douget, Ben Whitaker, and Emilio Navarrete Lineros.

</p>

<p>

The following people and organisations donated financially to help with the release of 1.51:

<br />

Gup & Boz @ Alki Seattle, Bytemine GmbH, Ted Pennings, Atanas Krachev, PrimeKey Solutions AB, Martin Paljak, CorseraFri19980116, CPU Terminator, Lindsay Bradford, kares, Philius, and Aaron Anderson.

</p>

<p>

Organisations

</p>

<ul>

<li>Holders of <a href="https://www.cryptoworkshop.com">Crypto Workshop Support Contracts</a>. Without the consulting time left over from support contracts being contributed back to working on the Bouncy Castle APIs, progress would be impossible. You know who you are!</li>

<li><a href="http://www.atlassian.com/">Atlassian Software Systems</a> donation of Confluence and JIRA licences.</li>

<li><a href="http://www.grierforensics.com/">Grier Forensics</a>, for collaborating in the development of the S/MIME Toolkit and DANE SMIMEA functionality.</li>

<li>TU-Darmstadt, Computer Science Department, RBG, for the initial

lightweight client side TLS implementation, which is based on MicroTLS and for help with qTESLA

implementation. MicroTLS was developed by Erik Tews under the supervision of Dipl.-Ing. Henning Baer and Prof.

Max Muehlhaeuser. qTESLA assistance was provided by Nina Bindel and Yinhua Xu.

</li>

<li>TU-Darmstadt, Computer Science Department, RBG, for the initial Post Quantum provider, which was based on the FlexiProvider. The FlexiProvider was developed by the Theoretical Computer Science Research Group at TU-Darmstadt, Computer Science Department, RBG under the supervision of Prof. Dr. Johannes Buchmann. More information on the history of FlexiProvider can be found at: <a href="http://www.flexiprovider.de/">http://www.flexiprovider.de/</a>

</li>

<li>Voxeo Labs - sponsorship of the initial development of APIs for DTLS 1.0 (RFC 4347), DTLS-SRTP key negotiation (RFC 5764), and server side TLS 1.1 (RFC 4346) and tested WebRTC compatibility. More information on Voxeo Labs can be found at <a href="http://voxeolabs.com">http://voxeolabs.com</a></li>

<li><a href="https://www.coreinfrastructure.org/">Core Infrastructure Initiative</a> - financial support towards developing the TLS API and JSSE provider that appeared in 1.56.</li>

<li>Additional CertPath testing and validation data from the CertPath testing tool developed by <a href="https://www.cryptosource.de">cryptosource GmbH</a> and <a href="https://www.mtg.de">media Transfer AG</a> both located in Darmstadt, Germany.</li>

<li><a href="https://www.microfocus.com/">Micro Focus</a> - additional support towards further developing the TLS/DTLS API and the BCJSSE provider.</li>

</ul>

<p>

People

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<ul>

<li>Tito Pena &lt;Fortunato.Pena&#064;AdNovum.CH&gt; - initial RC5 implementation</li>

<li>Michael Lee &lt;yfl&#064;mira.net&gt; - initial RC6 implementation, MD2 implementation</li>

<li>Nuno Santos &lt;nsantos&#064;student.dei.uc.pt&gt; - finding toString bug in certificate object.</li>

<li>Brett Sealey &lt;bretts&#064;mortbay.com&gt; - fixing the missing return problem in JDKKeyFactory (affected SSLeay private keys).</li>

<li>Victor A. Salaman &lt;salaman&#064;teknos.com&gt; - fixing the bug in Cipher.java which caused it to ignore specified providers, fixing the bug in RSAKeyGenerator which caused keys to be occasionally produced 1 bit too small.</li>

<li>Eran Librach &lt;eranl&#064;valicert.com&gt; - spotting and fixing the classLoader bug that occurs if javax.crypto and the provider aren't sharing the same classpath (occurs in JDK 1.3 and greater).</li>

<li>Jonathan Knudsen &lt;jonathan&#064;LearningPatterns.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>

<li>Markus Niedermann &lt;markus.niedermann&#064;softwired-inc.com&gt; - porting information and restrictions when using the lightweight library with the MIDP environment.</li>

<li>Mike Benham &lt;moxie&#064;thoughtcrime.org&gt; - detection and fixing of an incorrect weak key in the DES key generation support classes. Suggestions for simplifying DESedeParameter objects. Optimisations for the Blowfish engine and BufferedBlockCipher class.</li>

<li>Soren Hilmer &lt;hilmer&#064;mail.tele.dk&gt; - initial implementation of netscape certificate request classes.</li>

<li>Uwe Guenther &lt;uwe&#064;csc.de&gt; - detection and fixing of 3 incorrect semi-weak keys in the DES key generation support classes.</li>

<li>Markus Bradtke &lt;mab&#064;informatik.uni-kiel.de&gt; - fixing of a logic

error in the JDKKeyStore class.</li>  
<li>Waclaw Sierek &lt;waclaw.sierek@tpg.pl>; - fix to setOddParity in the DESParameter class. Assistance with adding ordering to X509 names for certificate generation, proper processing of byte strings in the ASN1 package, further simplifications and additional classes to improve pkcs7 support, bug fixes in CertPath API.</li>  
<li>Ly-Na Phu &lt;lyna.phu@init-consulting.de>; - assistance in the addition of ISO 9796-1 padding.</li>  
<li>Stefan K&ouml;psell &lt;sk13@mail.inf.tu-dresden.de>; - making the jdk 1.1 version of the collections API available. For further details see <a href="http://sourceforge.net/projects/jcf/">http://sourceforge.net/projects/jcf/</a></li>  
<li>Carmen Bastiaans &lt;cbastiaa@microbits.com.au>; - fixing the improper null pointer problem in the setting of certificates in the PKCS12 key store.</li>  
<li>Tomas Gustavsson &lt;tomasg@primekey.se>; - initial implementation of the AuthorityInformationAccess, SubjectKeyIdentifier, AuthorityKeyIdentifier, CRLNumber, CRLReason, CertificatePolicies, V2TBSCertListGenerator, and X509V2CRLGenerator classes in the ASN.1 library. Additions to GeneralName class, other bug fixes in the X.509 package. Initial implementation of the CertificationRequest classes. getRevocationReason() patch for OCSP. Patch to SemanticsInformation to prevent ClassCastException.</li>  
<li>Eugen Kuleshov &lt;euxx@hotmail.com>; - optimisations for Blowfish, assistance with PKCS12/keytool interoperability.</li>  
<li>Megan Woods &lt;meganwoods@sekurafire.com>; - initial implementation of ECIES.</li>  
<li>Christian Geuer-Pollmann &lt;geuerp@apache.org>; - adding IV's to the AESWrap implementations. Initial implementation of DESedeWrap.</li>  
<li>Michael M&#252;hle &lt;michael@mouling.de>; - contributing the initial CertPath implementation and compatibility classes, fixing provider bug in JDK 1.1 java.security.cert.CertificateFactory compatibility class.</li>  
<li>Michael Mansell &lt;me@michaelmansell.com>; - fixing the parsing of the empty DER set in the ASN.1 library.</li>  
<li>Eike Recker &lt;eike.recker@gmx.de>; - fixing misspelling of provider reference for RSA/1 and RSA/2.</li>  
<li>Chris Southern &lt;CSouthern@baltimore.com>; - fixing misuse of specified provider in the PKCS10 certification request class.</li>  
<li>Sidney Markowitz &lt;sidney@sidney.com>; - fixing null pointed exception on unknown OID in X509Name class, initial implementation of the three AES engines.</li>  
<li>Chris Kerr &lt;ckerr@filonet.ca>; - initial implementation of the cms, asn1.cms, and the mail/smime packages, assistance in simplifying the ASN.1 package, miscellaneous other optimisations, NIST CertPath certification test, PKIXPolicyNode class, CertPath subtree validation and policy tree construction. We also wish to acknowledge the generosity of Filonet Corporation for allowing Chris to make the initial cms and mail/smime packages available to us.</li>  
<li>Mike Bean &lt;mbean@lucentradius.com>; - fixing the fall through bug in the IV algorithm parameters class.</li>  
<li>Martin Petraschek &lt;e9526225@student.tuwien.ac.at>; - fixing ASN1 tagging so tag values up to 30 are now supported.</li>  
<li>Jess Garms &lt;jgarms@yahoo.com>; - fixing 112/168 key size bug for DESede key generation.</li>

- <li>Mike Bremford &lt;mike&#064;big.faceless.org&gt; - contributing the initial PKCS7 implementation.</li>
  - <li>Shankar Srinivasan &lt;ssr002&#064;yahoo.com&gt; - S/Mime interoperability testing and debugging.</li>
  - <li>Stef Hoeben &lt;ilsestef&#064;skynet.be&gt; - adding Montgomery multiplication to the BigInteger class.</li>
  - <li>Klaudiusz Ciosk &lt;kciosk&#064;max.com.pl&gt; - improving the compatibility of the SMIME package with the Sun JCE.</li>
  - <li>Thomas Houtekier &lt;Thomas.Houtekier&#064;tectrade.net&gt; - S/Mime testing and debugging.
- Interoperability with Biztalk.</li>
- <li>Don Hillsberry &lt;hillsber&#064;dialcorp.com&gt; - S/Mime testing and debugging.</li>
  - <li>Kazuo Furuya &lt;kfuruya&#064;infoteria.co.jp&gt; - fixing root certificate chaining bug in PKCS12 key store.</li>
  - <li>Jason Novotny &lt;jdnovotny&#064;lbl.gov&gt; - initial work on the openSSL PEM processing.</li>
  - <li>Joel Hockey &lt;joel.hockey&#064;qipayments.com&gt; - initial work on the openSSL PEM processing.</li>
  - <li>John Steenbruggen &lt;JohnS&#064;geotrust.com&gt; - fixing CertificationRequestInfo to handle cert request info objects without attribute blocks.</li>
  - <li>Justin Chapweske &lt;justin&#064;chapweske.com&gt; - ordering patch for Tiger message digest.</li>
  - <li>John Serock &lt;jserock&#064;hotmail.com&gt; - fixing null pointer exception in constructor for ExtendedKeyUsage. Fixing of base OID bug in KeyPurposeId. Compliance of KeyUsage extension return value with security API.</li>
  - <li>Sascha Weinreuter &lt;Sascha.Weinreuter&#064;cit.de&gt; - fixed SMIME saveChanges() bug.</li>
  - <li>Andre Wehnert &lt;aw5&#064;mail.inf.tu-dresden.de&gt; - fixing key schedule problem in RC5-64, fixing buffer cleaning issue in buffered block cipher.</li>
  - <li>Luigi Lo Iacono &lt;lo\_iacono&#064;nue.et-inf.uni-siegen.de&gt; - adding SIC mode to the blockciphers in the provider.</li>
  - <li>Tim Sakach &lt;tsakach&#064;certivo.net&gt; - SMIME v2 compatibility patches.</li>
  - <li>Marcus Povey &lt;mpovey&#064;brookes.ac.uk&gt; - adding the PGP mode to the lightweight API and the provider.</li>
  - <li>Sebastian Clau &lt;sc2&#064;inf.tu-dresden.de&gt; - adding randomness setting to the certificate and CRL generators.</li>
  - <li>Nicolas Bielza &lt;nicolas.bielza&#064;alligacom.com&gt; - isolating the tagging bug in the ASN.1 library that was misrepresenting some ASN.1 constructed data types. Contributions to the streaming S/MIME classes.</li>
  - <li>Casey Marshall &lt;rsdio&#064;metastatic.org&gt; - fixing the clone problem with Macs in the clean room JCE.
  - <li>Rick Zeldes &lt;rick.zeldes&#064;eds.com&gt; - initial code for CMS/SMIME CompressedData.</li>
  - <li>Jarek Gawor &lt;gawor&#064;mcs.anl.gov&gt; - fixing ASN.1 sequence unpacking in BasicConstraints constructor.</li>
  - <li>Brett Neumeier &lt;random&#064;rnd.cx&gt; - patch to OriginatorIdentifierOrKey object, improvements to encoders package, introduction of UrlBase64.</li>
  - <li>Graham Coles &lt;graham.coles&#064;retail-logic.com&gt; - patch to isParityAdjusted in DESKeySpec.</li>
  - <li>J&ouml;rnl von Kattch&eacute;e &lt;J.Kattchee&#064;seeburger.de&gt; - patch to SMIMEGenerator for preventing class cast exceptions with BodyParts containing Multipart objects.</li>
  - <li>Matteo Artuso &lt;matartuso&#064;libero.it&gt; - picking up the possible overread in ASN1InputStream.</li>
  - <li>Julian Morrison &lt;julian&#064;extropy.demon.co.uk&gt; - spotting the slow down in Diffie-Hellman key generation.</li>
  - <li>Elmar Sonnenschein &lt;eso&#064;esomail.de&gt; - fix to long conversion in clean room SecureRandom.</li>
  - <li>J&ouml;rnl Schwarze &lt;JSchwarze&#064;ulc.de&gt; - Locale fix for the clean room JCE.</li>
  - <li>Bryan Lovquist &lt;bkl&#064;cps.com.au&gt; - Other provider compatibility fixes for CMS signing.</li>

- <li>Artem Portnoy &lt;Artem\_Portnoy@#064;ibi.com&gt; - generalisations for CMSProcessableBodyPart in S/MIME. Header fix for mime messages.</li>
- <li>Michael H&#039;auml;usler &lt;haeusler@#064;ponton-consulting.de&gt; - missing OID update for SHA1 with RSA Signature.</li>
- <li>Johan Seland &lt;johans@#064;netfonds.no&gt; - general toString for BigInteger class.</li>
- <li>Johannes Nicolai &lt;johannes.nicolai@#064;novosec.com&gt; - further enhancements to OCSP response generation, fix to CertificateID issuer.</li>
- <li>Marc Doberva &lt;marc.doberva@#064;ilex-si.com&gt; - help in isolating the JSSE/BC RSA key issue.</li>
- <li>Jan Dvorak &lt;jan.dvorak@#064;mathan.cz&gt; - initial implementation of the light weight Null block cipher.</li>
- <li>Joe Cohen &lt;jcohen@#064;forumsys.com&gt; - converting the ArrayOutOfBoundsException in DERInputStream into what it should have been.</li>
- <li>Chris Long&lt;aalong@#064;ece.cmu.edu&gt; - adding public key decoding to PEMReader.</li>
- <li>Hes Siemelink&lt;hes@#064;izecom.com&gt; - findIssuer fix for CertPathBuilder, toMimeMessage converter for Mail API, getSize() fix for zero length messages in SMIMEMessage.</li>
- <li>Stefan Puiu&lt;stefanpuiu@#064;yahoo.com&gt; - initial implementation V3 policy mapping, policy qualifier objects in ASN.1 X.509 package.</li>
- <li>Kaiser Yang &lt;kaiseryang@#064;yahoo.com&gt; - Finding BigInteger loop problem in prime generation.</li>
- <li>Jiri Urbanec &lt;jiri.urbanec@#064;logicacmg.com&gt; - patch to fix defect in DERBMPString.equals().</li>
- <li>Justin Kolb &lt;jkolb@#064;pristx.com&gt; - patch to DSA signature generation in OpenPGP. Fix for the unexpected "Unexpected end of ZLIB input stream" exception.</li>
- <li>Ralf Hauser &lt;ralfhauser@#064;gmx.ch&gt; - patch to exception handling in PublicKeyRing, PEMReader, 1.4 build script, X509 Certificate Factory, CertPathValidatorUtilities, fromAddress null check in SignedMailValidator, ReadOnceInputStream testing utility in MIME tests.</li>
- <li>Michal Dvorak &lt;M\_Dvorak@#064;kb.cz&gt; - getNextUpdate patch for OCSP SingleResp.</li>
- <li>Klaus Greve Fiorentini &lt;Klaus@#064;cpqd.com.br&gt; - array fix in PGP PublicKeyEncSessionPacket.</li>
- <li>Olivier Refalo &lt;Olivier\_Refalo@#064;fpl.com&gt; - null pointer exception fix for JDK 1.3 CMSSignedData objects.</li>
- <li>Mariusz Bandola &lt;mariusz.bandola@#064;cryptotech.com.pl&gt; - patch to DERGeneralizedTime. Compliance patch for OCSP TBSRequest class. Patch to X509Name for delaing with general objects in sequences.</li>
- <li>Brien Oberstein &lt;brien.oberstein@#064;transacttools.net&gt; - patch to S2K algorithm in OpenPGP, initial PGP version 3 secret key support, initial PGP version 3 signature generation, RIPEMD160 addition to PGPUtil.</li>
- <li>Ian Haywood &lt;ian@#064;haywood.bpa.nu&gt; - addition of getSignatureType to PGPSignature.</li>
- <li>Jonathan Edwards &lt;s34gull@#064;mac.com&gt; - initial support for reading multiple rings from a PGP key file.</li>
- <li>Andrew Thornton &lt;andrew@#064;caret.cam.ac.uk&gt; - patch for RSA PUBLIC KEY in PEMReader.</li>
- <li>Gregor Leander &lt;gl@#064;bos-bremen.de&gt; - initial parsing of multiple sequence entries in an X.500 Name.</li>
- <li>Antoon Bosselaers &lt;Antoon.Bosselaers@#064;esat.kuleuven.ac.be&gt; - help with RipeMD320 implementation.</li>
- <li>Peter Sylvester &lt;Peter.Sylvester@#064;edelweb.fr&gt; - improvements to the ASN.1 BasicConstraints object.</li>
- <li>Doug &lt;ummmmm@#064;myrealbox.com&gt; - addition of isEncryptionKey method to OpenPGP public keys.</li>
- <li>Francois Staes &lt;fstaes@#064;netconsult.be&gt; - improvements to DEBitString, DERGeneralizedTime and initial implimentation of DERGeneralString, addition of settable signed object info to CMSSignedDataGenerator, patch to DH key agreement.</li>

- <li>W.R. Dittmer &lt;wdittmer@cs.vu.nl>; - patch to decoding of SignatureCreationTime in BCPG. Patch to PGPPublicKey to fix nullpointer exception.</li>
- <li>Perez Paz Luis Alberto &lt;lalopez@banxico.org.mx>; - patch to use of BitString in X.500 name.</li>
- <li>James Wright &lt;James\_Wright@harte-hanks.com>; - patches for dealing with "odd" ArmoredInputStreams.</li>
- <li>Jim Ford &lt;jim@muirford.com>; - patch to PGPSecretKey to avoid null pointer exception on encoding secret keys, comments on KeyExpirationTime, getBitStrength for ElGamal keys. Signature creation time patch for newly created v4 signatures.</li>
- <li>Michael Hausler &lt;haeusler@ponton-consulting.de>; - extra aliases for provider.</li>
- <li>Sai Pullabhotla &lt;psai@linoma.com>; - fix to PGP compressed data generator to improve compression levels. Performance improvements for KeyBasedLargeFileProcessor.</li>
- <li>Joseph Miller &lt;joseph@digiwweb.net.nz>; - addition of ZeroBytePadding.</li>
- <li>Lars &lt;xyz@sagemdenmark.dk>; - patch to explicit padded mode for CBC block cipher MAC.</li>
- <li>Jeroen van Vianen &lt;jeroen@vanvianen.nl>; - the Signed and Encrypted mail example.</li>
- <li>Jun Sun &lt;JSun@diversinet.com>; - patch to SecureRandom to work around problem in wtk 1.0.4 and wtk 2.1.</li>
- <li>Petr Dukem &lt;pdukem@email.cz>; - patch to CMSSignedDataGenerator to allow it to work with PKCS11 providers.</li>
- <li>Filipe Silva &lt;filipe.silva@wedoconsulting.com>; - patch to fix overread issue in BCPGInputStream.</li>
- <li>Alpesh Parmar &lt;alps@linuxmail.org>; - patch for class cast problem in PGPPublicKey.getSignatures().</li>
- <li>Jay Gengelbach &lt;jgengelbach@webmethods.com>; - patch to fix isSigningKey in PGPSecretKey class, patch to hashedPackets in PGP signatureGenerator, initial cut for indefinite length output.</li>
- <li>Doug &lt;doug@tigerprivacy.com>; - public key ring patches for ElGamal Signatures, problem key ring data.</li>
- <li>Matthew Mundy &lt;mmundy1@umbc.edu>; - infinite loop prevention patch to PKCS5S2ParametersGenerator.</li>
- <li>Tom Cargill &lt;cargill@profcon.com>; - spelling patch in provider.</li>
- <li>Breitenstrom Christian &lt;C.Breitenstrom@systems.com>; - compatibility patch to SignaturePacket, DetachedSignatureProcessor.</li>
- <li>Zanotti Mirko &lt;zanotti@cad.it>; - patch to ordered equality test for X509Name.</li>
- <li>Nicola Scendoni &lt;nscendoni@babelps.it>; - patch to add sorting to CertPath validation.</li>
- <li>Ville Skyttä &lt;ville.skytta@iki.fi>; - patch to CRLDistPoint for cRLIssuer field. KeyStore compliance on add patches. DiffieHellman patch for provider compliance. Support for PEM object "TRUSTED CERTIFICATE". Exception handling patch in PEMReader. JavaDoc clean up.</li>
- <li>Bruce Gordon &lt;bruce.gordon@savvis.net>; - patch to secret key creation encoding NullPointerException in OpenPGP, speed up for BCPGInputStream.</li>
- <li>Miles Whiteley &lt;Miles.Whiteley@savvis.net>; - "223" fix for BCPGInputStream new packets.</li>
- <li>Albert Moliner &lt;amoliner@evintia.com>; - initial TSP implementation.</li>
- <li>Carlos Lozano &lt;carlos@evintia.com>; - initial TSP implementation, patch to SignerInformation for supporting repeated signers, initial updates for supporting repeated attributes in CMS.</li>
- <li>Javier Delgado &lt;javi@codewarp.org>; - initial Mozilla PublicKeyAndChallenge classes.</li>
- <li>Joni Hahkala &lt;joni.hahkala@cern.ch>; - initial implementations of VOMS Attribute Certificate Validation, IetfAttrSyntax, and ObjectDigestInfo. We also wish to thank the <a href="http://www.eu-egee.org">EGEE project</a> for making the work available.</li>
- <li>Rolf Schillinger &lt;rolf@sir-wum.de>; - initial implementation of Attribute Certificate generation.</li>
- <li>Sergey Bahtin &lt;Sergey\_Bahtin@yahoo.com>; - fix for recovering certificate aliases in BKS and

UBER key stores. Initial implementations of GOST-28147, GOST-3410, EC GOST-3410, GOST OFB mode (GOFB) and GOST-3411.</li>

<li>Franck Leroy &lt;Franck.Leroy#064keynectis.com&gt; - ANS.1 set sorting. Contributions to TSP implementation. Test vectors for Bleichenbacher's forgery attack.</li>

<li>Atsuhiko Yamanaka &lt;yumnk#064jcraft.com&gt; - patch for improving use of Montgomery numbers in BigInteger library. Patch to use size of private exponent in DH parameters.</li>

<li>Nicolay Bolshackov &lt;tyrex#064reksoft.ru&gt; - patch for class cast exception in AuthorityInformationAccess class.</li>

<li>Soren Hilmer &lt;soren.hilmer#064tietoenator.com&gt; - patches for CertID with issuerSerial set in TSP implementation, additional compliance testing.</li>

<li>Steve Mitchell &lt;mitchell#064intertrust.com&gt; - patch for stateful path validator fix. Patch to allow BigInteger class to create negative numbers from byte arrays. Additions to allow different providers to be used for asymmetric/symmetric encryption in OpenPGP.

Optimisation to avoid redundant verification in path validator. Suggestion to use PKIXParameters.getSigProvider() correctly.</li>

<li>Dirk Eisner &lt;D.Eisner#064seeburger.de&gt; - initial implementation of ISO 78164-4 padding.</li>

<li>Julien Pasquier &lt;julienpasquier#064free.fr&gt; - initial implementation of attribute classes from RFC 3126. Fix to KEKIdentifier, OtherKeyAttribute parsing. Initial ContentHints class.</li>

<li>Matteo &lt;matartuso#064libero.it&gt; - sequence patch to ASN1Dump.</li>

<li>Andrew Paterson &lt;andrew.paterson#064burnsecs.com&gt; - patches to PGP tools, isRevoked method on PGPPublicKey.</li>

<li>Vladimir Molotkov &lt;vladimir.n.molotkov#064intel.com&gt; - extensive provider exception handling compliance testing.</li>

<li>Florin Kollan &lt;adlocflo#064web.de&gt; - fix to ElGamalKeyParameters equality testing.</li>

<li>Pavel Vassiliev &lt;paulvas#064gmail.com&gt; - Initial GOST28147Mac implementation.</li>

<li>Tom Pesman &lt;tom#064tnux.net&gt; - addition of DES-EDE encryption for RSAPrivate keys to PEMWriter.</li>

<li>Lukasz Kowalczyk &lt;lukasz.b.kowalczyk#064gmail.com&gt; - patch to fix parsing issue with OpenSSL PEM based certificate requests.</li>

<li>Arndt Hasch &lt;Arndt.Hasch#064maxence.de&gt; - additional fix for partial reading with new style PGP packets.</li>

<li>Fix Bernd (KCDP 11) &lt;bernd.fix#064credit-suisse.com&gt; - fix for 31 byte issue and exception throwing by Whirlpool.</li>

<li>David M. Lee &lt;dmlee#064Crossroads.com&gt; - code for add and remove secret key in the PGPSecretKeyRing class. Additions to S/MIME and CMS unit tests.</li>

<li>Mike Dillon &lt;md5#064embody.org&gt; - additional checks for PGP secret and public key construction, patches to copyWithNewPassword.</li>

<li>tu-vi cung &lt;t2cung#064hotmail.com&gt; - patch for out of bounds problem in getDecoderStream method.</li>

<li>Chris Schultz &lt;cschultz#064gmail.com&gt; - fix for InputStream constructor for X509V2AttributeCertificate.</li>

<li>David M. Lee &lt;dmlee#064Crossroads.com&gt; - implementation assistance with streaming CMS classes.</li>

<li>Joel Rees &lt;rees#064ddcom.co.jp&gt; - fix to correct getOID methods from returning same set on X.509 attribute certificates.</li>

<li>Francesc Sau &lt;francesc.sau#064partners.netfocus.es&gt; - micro fix for tsp Accuracy class.</li>

<li>Larry Bugbee &lt;bugbee#064mac.com&gt; - initial ECNR implementation.</li>

<li>Remi Blancher &lt;Remi.Blancher#064keynectis.com&gt; - Contributions to TSP implementation. Initial

implementation of RFC 3739 and ICAO ASN.1 classes.</li>  
<li>Brian O'Rourke &lt;brianorourke&#064gmail.com&gt; - patch for signature creation time override in OpenPGP.</li>  
<li>Andreas Schwier &lt;andreas.schwier&#064cardcontact.de&gt; - initial implementation of ISO9797 MAC Algorithm 3, addition of DES-EDE 64 MAC to the provider, fix to EC point encoding, addition of EC and RSA-PSS OIDs to CMS, addition of AES-CMAC and DESede-CMAC to JCE provider.</li>  
<li>David Josse &lt;david.josse&#064transacttools.net&gt; - Patch for trailer function in version 2 signature packets.</li>  
<li>Kishimoto Kazuhiko &lt;kazu-k&#064hi-ho.ne.jp&gt; - RFC 3280 updates to policy processing in the CertPath validator. Additional test data not covered by NIST.</li>  
<li>Lawrence Tan &lt;lwrnctan&#064gmail.com&gt; - Large field OID sample test data. Missing key types in JDKKeyFactory.</li>  
<li>Carlos Valiente &lt;superdupont&#064gmail.com&gt; - Addition of CRL writing to the PEMWriter class.</li>  
<li>Keyon AG, Martin Christinat, <a href="http://www.keyon.ch">http://www.keyon.ch</a> - fixing incorrect ASN.1 encoding of field elements in X9FieldElement class.</li>  
<li>Olaf Keller, &lt;olaf.keller.bc&#064bluewin.ch&gt; - initial implementation of the elliptic curves over binary fields F2m. Additional tests and modifications to elliptic curve support for both F2m and Fp. Performance improvements to F2m multiplication. Initial implementation of WNAF/WTNAF point multiplication. Improvement to k value generation in ECDSA.</li>  
<li>J&ouml;rg Eichhorn &lt;eichhorn&#064ponton-consulting.de&gt; - patch to fix EOF read on SharedFileInputStream, support for F2m compression.</li>  
<li>Karsten Ohme &lt;widerstand&#064t-online.de&gt; - initial check against for out of range data on non byte aligned RSA keys. Addition of equals/hashCode on ECCurve.Fp. Additional curve type support for Fp, contributions to F2m compression. F2m decoding for ECPointUtil. Infinity fix and prime192v2 fix for Fp. Extra validation for RSA key creation. Fix to name typos for some OpenSSL key generators. RFC-1779 table, improved RFC 2253 compliance for X509Name. Additional constructor validation for X.509/ESS ASN.1 classes. Validation for Printable, IA5, and Numeric Strings. Fix for RFC 5280 NameConstraint checking for RDNs.</li>  
Support for surrogate pairs in DERUTF8String, DER UTF8 test. Additional X.509 name attributes for ISIS-MTT, RFC 3039, addition of indirect CRL support, initial X509 LDAP CertStore implementation, CertificatePair class, and X509CertificatePair class. Contributions to X509Store/Parser infrastructure and design.  
CertPath support for implicit DSA parameters and a range of NameConstraints. Addition of support for V1 attribute certificates and attribute certificate path validation. Initial classes for ASN.1 ISIS-MTT support. Enhancements for improving compliance with the NIST CertPath tests.</li>  
<li>Carlos Lozano Ruiz &lt;carlos&#064tradise.com&gt; - patch for &lt;ctrl&gt;&lt;m&gt; only handling in CRLFOutputStream.</li>  
<li>John Alfred Prufrock &lt;j.a.prufrock&#064gmail.com&gt; - mods to GOST-3411 and MD2 to support ExtendedDigest.</li>  
<li>Stefan Neusatz Guillhen &lt;sneusatz&#064gmail.com&gt; - initial version of RoleSyntax, improvements to AttributeCertificateHolder and AttributeCertificateIssuer.</li>  
<li>Marzio Lo Giudice &lt;marzio.logiudice&#064gmail.com&gt; - fix to endianness in KDF2BytesGenerator, additional KDF2 tests.</li>  
<li>Georg Lippold &lt;georg.lippold&#064gmx.de&gt; - initial implementation of NaccacheStern cipher.</li>  
<li>Chris Viles &lt;chris\_viles&#064yahoo.com&gt; - fix to SignatureSubpacket critical bit setting.</li>  
<li>Pasi Eronen &lt;Pasi.Eronen&#064nokia.com&gt; - extra toString() support for ASN.1 library. Initial patch for large OID components.</li>  
<li>Lijun Liao &lt;https://github.com/xipki&gt; performance enhancements for SHA family of digests. Bug report and patch for blank line handling in ArmoredInputStream. Addition of getSignatureAlgorithmID to BasicOCSPResp. Reset fix for SM2 signatures, performance improvements for SHA-3. Clean up of CMP

EncryptedValueBuilder, additional functionality on PollReqContent. Bug fix for endianness issue in cSHAKE left encode method.</li>

- <li>Maria Ivanova &lt;maria.ivanova&#064gmail.com&gt; - support for tags > 30 in ASN.1 parsing.</li>
- <li>Armin H&auml;berling &lt;arminha&#064student.ethz.ch&gt; - first cut of internationalisation, initial PKIX validation classes.</li>
- <li>Marius Schilder &lt;mschilder&#064google.com&gt; - main set of test vectors for Bleichenbacher's forgery attack.</li>
- <li>Xavier Le Vouch &lt;xavier&#064brittanysoftware.com&gt; - general code clean ups.</li>
- <li>Erik Tews &lt;e\_tews&#064cdc.informatik.tu-darmstadt.de&gt; - initial threaded random seed generator, constant-time PKCS#1.5 decoding</li>
- <li>Thomas Dixon &lt;reikomusha&#064gmail.com&gt; - initial implementations of TEA/XTEA, Salsa20, ISAAC, and Noekeon. XTEA enhancements.</li>
- <li>Frank Cornelis &lt;info&#064frankcornelis.be&gt;- addition of crlAccessMethod in X509ObjectIdentifiers.</li>
- <li>Rui Joaquim &lt;rjoaquim&#064cc.isel.ipl.pt&gt; - initial implementation of RSA blinding for signatures.</li>
- <li>David Stacey &lt;DStacey&#064allantgroup.com&gt; - addition of trust packet checking on revocation signatures in PGPSecretKeyRing.</li>
- <li>Martijn Brinkers &lt;list&#064mitm.nl&gt; - better exception handling in CMS enveloping, "just in time" modifications for CRL and Sequence evaluation.</li>
- <li>Julius Davies &lt;juliusdavies&#064gmail.com&gt; - additional modes and algorithm support in PEMReader</li>
- <li>Matthias &lt;g&#064rtner.de&gt; - GnuPG compatibility changes for PBEFileProcessor.</li>
- <li>Olga K&auml;thler &lt;olga.kaethler&#064hjp-consulting.com&gt; - initial implementation of TeleTrusT EC curves, additional ISO 9797 MACs, contributions to EAC OIDs, addition of EAC algorithms to CMS Signing.</li>
- <li>Germano Rizzo &lt;germano.rizzo&#064gmail.com&gt; - initial implementation of CMac, EAX, HC-128, and HC-256, optimisations for Salsa20.</li>
- <li>N&uacute;ria Mar&iacute; &lt;numaa&#064hotmail.com&gt; - patch for alternate data type recognition in CMSSignedDataParser.</li>
- <li>Janis Schuller &lt;js&#064tzi.de&gt; - addition of NotationData packets for OpenPGP.</li>
- <li>Michael Samblanet &lt;mike&#064samblanet.com&gt; - patches towards improved Sun/default provider support in CMS.</li>
- <li>Mike StJohns &lt;mstjohns&#064comcast.net&gt; - patches for supporting empty subject in X.509 certificate generation, noneWithECDSA, updates to KeyPurposeId.</li>
- <li>Ramon Keller &lt;ramon.keller&#064gmx.ch&gt; - patch to deal with null revocations return from other CRL in X509V2CRLGenerator.</li>
- <li>Mark Nelson &lt;mark&#064nbr.com&gt; - correction to excluded DN in name constraints processing for PKIX processing.</li>
- <li>Eugene Golushkov &lt;eugene\_gff&#064ukr.net&gt; - mask fix to single byte read in TlsInputStream.</li>
- <li>Julien Pasquier &lt;julienpasquier&#064free.fr&gt; - additional classes for supporting signature policy and signer certificates in the ASN.1 esf and ess libraries.</li>
- <li>Peter Knopp &lt;pknopp&#064mtg.de&gt; - fix for named curve recognition in ECGOST key generation.</li>
- <li>Jakub Gwozdz &lt;gwozdziu&#064rpg.pl&gt; - addition of getTsa() to TimestampTokenInfo.</li>
- <li>Bartosz Malkowski &lt;bmalkow&#064tigase.org&gt; - initial implementation of VMPC cipher, VMPCRandomGenerator, VMPCMac.</li>
- <li>Tal Yacobi &lt;tal.yacobi&#064octavian-tech.com&gt; - fix for issue in OpenPGP examples [#BJA-55].</li>
- <li>Massimiliano Ziccardi &lt;massimiliano.ziccardi&#064gmail.com&gt; - support for counter signature reading in CMS API, update for multiple counter signature attributes, JCA compliance patch for PEM parsing in CertificateFactory.</li>

- <li>Andrey Pavlenko &lt;andrey.a.pavlenko@#064gmail.com&gt; - security manager patch for PKCS1Encoding property check.</li>
- <li>J Ross Nicoll &lt;jrn@#064jrn.me.uk&gt; - improved exception handling for getInstance() in ASN.1 library.</li>
- <li>Matthew Stevenson &lt;mavricknz@#064yahoo.com&gt; - patch to construtor for CRMF CertSequence.</li>
- <li>Gabriele Contini &lt;gcontini@#064hotpop.com&gt; - identified a bug in ASN.1 library with handling of unterminated NDEF's.</li>
- <li>Roelof Naude &lt;roelof.naude@#064epiuse.com&gt; - patch for TLS client to send empty client certs in response to HP\_CERTIFICATE\_REQUEST.</li>
- <li>Patrick Peck &lt;peck@#064signaturen.at&gt; - identified problem with DERApplicationSpecific and high tag numbers in ASN.1 library.</li>
- <li>Michael LeMay &lt;lemaymd@#064lemaymd.com&gt; - identified problem with EAX [#BJA-93].</li>
- <li>Alex Dupre &lt;ale@#064FreeBSD.org&gt; - fix to use of Signature rather than SignatureSpi in provider [#BJA-90]. Addition of null provider use to SignedPublicKeyAndChallenge and PKCS10CertificationRequest [#BJA-102]</li>
- <li>Michael Schoene &lt;michael@#064sigrid-und-michael.de&gt; - fix of improper handling of null in ExtendedPKIXParameters.setTrustedACIssuers(), check for V2 signingCertificate attribute in TimeStampResponse.validate().</li>
- <li>Ion Larra&ntilde;aga &lt;ilarra@#064s21sec.com&gt; fix to default partial packet generation in BCPGOutputStream.</li>
- <li>Bob Kerns &lt;bob.kerns@#064positscience.com&gt; fix to hashCode for X509CertificateObject.</li>
- <li>Stefan Meyer &lt;stefan.meyer@#064ewe.de&gt; backport for PKIXCertPathValidotor and SMIMESignedMailReviewer.</li>
- <li>Robert J. Moore &lt;Robert.J.Moore@#064allanbank.com&gt; speedups for OpenPGPCFB mode, clean room JCE patches.</li>
- <li>Rui Hodai &lt;rui@#064po.ntts.co.jp&gt; speed ups for Camellia implementation, CamelliaLightEngine.</li>
- <li>Emir Bucalovic &lt;emir.bucalovic@#064mail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
- <li>Torbjorn Svensson &lt;tobbe79@#064gmail.com&gt; initial implementation of Grain-v1 and Grain-128.</li>
- <li>Paul FitzPatrick &lt;bouncycastle\_pfitz@#064fitzpatrick.cc&gt; error message fix to X509LDAPCertStoreSpi, comparison fix to BCStrictStyle.</li>
- <li>Henrik Andersson &lt;k.henrik.andersson@#064gmail.com&gt; addition of UniqueIssuerID to certificate generation.</li>
- <li>Cagdas Cirit &lt;cagdasirit@#064gmail.com&gt; subjectAlternativeName fix for x509CertStoreSelector.</li>
- <li>Harakiri &lt;harakiri\_23@#064yahoo.com&gt; datahandler patch for attached parts in SMIME signatures.</li>
- <li>Pedro Henriques &lt;pmahenriques@#064gmail.com&gt; explicit bounds checking for DESKeyGenerator, code simplification for OAEP encoding.</li>
- <li>Lothar Kimmeringer &lt;job@#064kimmeringer.de&gt; verbose mode for ASNIDump, support for DERExternal, DNS performance fix for S/MIME API.</li>
- <li>Richard Farr &lt;rfarr.se@#064gmail.com&gt; initial SRP-6a implementation.</li>
- <li>Thomas Castiglione &lt;castiglione@#064au.ibm.com&gt; patch to encoding for CRMF OptionalValidity.</li>
- <li>Elisabetta Romani &lt;eromani@#064sopei.it&gt; patch for recognising multiple counter signatures.</li>
- <li>Robin Lundgren &lt;r737lundgren@#064gmail.com&gt; CMPCertificate constructor from X509CertificateStructure fix.</li>
- <li>Petr Kadlec &lt;mormegil@#064centrum.cz&gt; fix to sign extension key and IV problem in HC-128, HC-256.</li>
- <li>Andreas Antener &lt;antener\_a@#064gmx.ch&gt; fix to buffer reset in AsymmetricBufferedBlockCipher.</li>
- <li>Harendra Rawat &lt;hsrawat@#064yahoo.com&gt; fix for BERConstructedOctetString.</li>
- <li>Rolf Lindemann &lt;lindemann@#064trustcenter.de&gt; patch for PKCS12 key store to support more flexible

attribute specifications [#BMA-42].</li>  
<li>Alex Artamonov &lt;alexart.home@#064gmail.com&gt; name look up patch for GOST-2001 parameters.</li>  
<li>Mike Lyons &lt;mlyons@#064layer7tech.com&gt; work arounds for EC JDK bug 6738532 and JSSE EC naming conventions.</li>  
<li>Chris Cole &lt;chris\_h\_cole@#064yahoo.com&gt; identified a problem handling null passwords when loading a BKS keystore.</li>  
<li>Tomas Krivanek &lt;tom@#064atack.cz&gt; added checking of Sender header to SignedMailValidator.</li>  
<li>Michael &lt;emfau@#064t-online.de&gt; correction of field error in getResponse method in CertRepMessage.</li>  
<li>Trevor Perrin &lt;trevor@#064cryptography.com&gt; addition of constant time equals to avoid possible timing attacks.</li>  
<li>Markus Kil&aring;s &lt;markus@#064primekey.se&gt; several enhancements to TimeStampResponseGenerator.</li>  
<li>Dario Novakovic &lt;darionis@#064yahoo.com&gt; fix for NPE when checking revocation reason on CRL without extensions.</li>  
<li>Michael Smith &lt;msmith@#064cbnco.com&gt; bug fixes and enhancements to the CMP and CRMF classes, initial Master List classes.</li>  
<li>Andrea Zilio &lt;andrea.zilio@#064gmail.com&gt; fix for PEM password encryption of private keys.</li>  
<li>Alex Birkett &lt;alex@#064birkett.co.uk&gt; added support for EC cipher suites in TLS client (RFC 4492) [#BJA-291].</li>  
<li>Wayne Grant &lt;waynedgrant@#064gmail.com&gt; additional OIDs for PKCS10 and certificate generation support.</li>  
<li>Frank Cornelis &lt;info@#064frankcornelis.be&gt; additional support classes for CADES, enhancements to OCSP classes.</li>  
<li>Jan Dittberner &lt;jan@#064dittberner.info&gt; addHeader patch for SMIME generator.</li>  
<li>Bob McGowan &lt;boab.mcgoo@#064btinternet.com&gt; patch to support different object and mgf digests in PSS signing.</li>  
<li>Ivo Matheis &lt;i.matheis@#064seeburger.de&gt; fix to padding verification in ISO-9796-1.</li>  
<li>Marco Sandrini &lt;nessche@#064gmail.com&gt; patch to add IV to ISO9797Alg3Mac.</li>  
<li>Alf Malf &lt;alfilmalf@#064hotmail.com&gt; removal of unnecessary limit in CMSContentInfoParser.</li>  
<li>Alfonso Massa &lt;alfonso.massa@#064insiel.it&gt; contributions to CMS time stamp classes.</li>  
<li>Giacomo Boccardo &lt;gboccardo@#064unimaticaspa.it&gt; initial work on CMSTimeStampedDataParser.</li>  
<li>Arnis Tartu &lt;arnis@#064ut.ee&gt; patches for dealing with OIDs with specific key sizes associated in CMS.</li>  
<li>Janusz Sikocinski &lt;J.Sikocinski@#064gdzie.pl&gt; addition of Features subpacket support to OpenPGP API.</li>  
<li>Juri Hudolejev &lt;jhudolejev@#064gmail.com&gt; JavaDoc fix to CMSSignedDataParser.</li>  
<li>Liane Velten &lt;liane.velten@#064hjp-consulting.com&gt; fine tuning of code for DHParameters validation.</li>  
<li>Shawn Willden &lt;swillden@#064google.com&gt; additional functionality to PGPKKeyRing.</li>  
<li>Atanas Krachev &lt;akrachev@#064gmail.com&gt; added support for revocation signatures in OpenPGP.</li>  
<li>Mickael Laiking &lt;mickael.laiking@#064keynectis.com&gt; initial cut of EAC classes.</li>  
<li>Tim Buktu &lt;tbuktu@#064hotmail.com&gt; Initial implementation of NTRU signing and encryption.</li>  
<li>Bernd &lt;rbernd@#064gmail.com&gt; Fix for open of PGP literal data stream with UTF-8 naming.</li>  
<li>Steing Inge Morisbak &lt;stein.inge.morisbak@#064BEKK.no&gt; Test code for lower case Hex data in PEM headers.</li>  
<li>Andreas Schmid &lt;andreas.schmid@#064tngtech.com&gt; Additional expiry time check in

- PGPPublicKeys.</li>
- <li>Phil Steitz &lt;phil.steitz@gmail.com>; Final patch eliminating JCE dependencies in the OpenPGP BC classes.</li>
- <li>Ignat Korchagin &lt;ignat.korchagin@gmail.com>; Initial implementation of DSTU-4145-2002, long hash fix for DSTU-4145-2002.</li>
- <li>Petar Petrov &lt;p.petrov@bers-soft.com>; Testing and debugging of UTF-8 OpenPGP passwords.</li>
- <li>Daniel Fitzpatrick &lt;daniel.f.nwr@gmail.com>; Initial implementation of ephemeral key support for IES, initial implementations of RSA-KEM and ECIES-KEM, initial implementation of homogeneous projective coordinates for EC.</li>
- <li>Andy Neilson &lt;Andy.Neilson@quest.com>; a further patches to deal with multiple providers and PEMReader.</li>
- <li>Ted Shaw &lt;xiao.xj@gmail.com>; patch to MiscPEMGenerator for handling new PKCS10CertificationRequests.</li>
- <li>Eleriseth &lt;Eleriseth@WPECGLtYbVi8Rl6Y7Vzl2Lvd2EUUVW99v3yNV3IWROG8.fms>; speed up for SIC/CTR mode. Provider compatibility generalisations for EC operations.</li>
- <li>Kenny Root &lt;kenny@the-b.org>; patch for issuerAltName, subjectAltName support in X509CertificateObject, BaseBlockCipher.getIV() patch for AEAD.</li>
- <li>Maarten Bodewes &lt;maarten.bodewes@gmail.com>; initial implementation of HKDF and NIST SP 800-108 MAC based KDF functions.</li>
- <li>Philip Clay &lt;pilf\_b@yahoo.com>; Initial implementation of J-PAKE.</li>
- <li>Brian Carlstrom &lt;bdc@carlstrom.com>; compliance patches for some JCA/JCE keystore and cipher classes, miscellaneous code quality improvements, initial provider PBKDF2WithHmacSHA1 SecretKeyFactory.</li>
- <li>Samuel Lid&eacute;n Borell &lt;samuel@primekey.se>; patch to add DSTU-4145 to DefaultSignatureAlgorithmFinder</li>
- <li>Sergio Demian Lerner &lt;sergiolerner@certimix.com>; pointing out isInfinity issue in ECDSASigner signature verification.</li>
- <li>Tim Whittington &lt;Tim.Whittington@orionhealth.com>; patch to remove extra init call in CMac, additional of Memoable interface for Digest classes, initial implementation of GMAC, further correctness tests for IV and reset processing in OCB, CCM, and block cipher reset. Initial implementation of Skein, XSalsa20, ChaCha, reduced round Salsa20, Threefish, and the Poly1305 MAC. Documentation updates. Added OCB support to Noekeon and CAST6 in the provider, exception testing for CTS, optimisations for CCM, provider support for AAD cipher methods, safe CipherInput/OutputStream implementations for use with AAD and subsequent bug fixes, cleanup after IDEA patent expiry, work on JCE SipHash support, optimisations for AESFastEngine, further work on EncodableDigest for SHA-2 digests, contributions to BCrypt/OpenBSDBCrypt, PGP API documentation and code quality work.</li>
- <li>Marcus Lundblad &lt;marcus.lundblad@primekey.se>; patch for working around JDK jarsigner TSP bug, optional setting of IssuerSerial in TimestampTokenGenerator, additional extensions enhancement for time stamp token generation.</li>
- <li>Andrey Zhozhin &lt;zhozhin@xrm.ru>; patch for override of TSP SignerInfo attributes.</li>
- <li>Sergey Tiunov &lt;t5555d@gmail.com>; initial cut of DVCS classes.</li>
- <li>Damian Kolasa &lt;fatfredy@gmail.com>; ASN1Sequence patch for class cast issue in X9Curve.</li>
- <li>Ash Hughes &lt;ashley.hughes@blueyonder.co.uk>; patches for supporting PGPSecretKeyRing/PGPSecretKeys encodings with empty private keys, initial code for PGPSignatureSubpacketVector.getEmbeddedSignatures().</li>
- <li>Daniel Hirscher &lt;dev@daniel-hirscher.de>; patch to support parsing of explicit EC parameters in PEM files.</li>
- <li>Daniele Ricci &lt;daniele.athome@gmail.com>; initial implementation of EC keys for OpenPGP and

RFC6637 support.</li>  
<li>Matti Aarnio &lt;matti.aarnio&#064methics.fi&gt; tweaks to any build to remove dependence on shell scripts. Initial SM3 digest implementation, some EC related code cleanups, JavaDoc improvements for ASN.1 classes, addition of NONEwithRSA to lightweight RSADigestSigner.</li>  
<li>Babak Najafi &lt;bnajafi&#064akamai.com&gt; fixes to OpenPGP NotationData to prevent truncation problems.</li>  
<li>Eric Mueller &lt;eric.mueller&#064sage.de&gt; additional standard algorithm name lookups in JcaPEMKeyConverter.</li>  
<li>Mathias Herberts &lt;Mathias.Herberts&#064gmail.com&gt; fix to inOff usage in RFC3394WrapEngine.</li>  
<li>Daniil Ivanov &lt;daniil.ivanov&#064gmail.com&gt; addition of provider support for GOST HMAC SecretKeyFactory.</li>  
<li>Daniele Grasso &lt;daniele.grasso86&#064gmail.com&gt; contributions to final Key calculation code for SRP6.</li>  
<li>Andrey Utkin &lt;cindrhc&#064gmail.com&gt; patch to reconstruction of ECGOST keys from PrivateKeyInfo objects in provider classes.</li>  
<li>Arnis Tartu &lt;arnis&#064ut.ee&gt; checker for generated key vs OID in JceCMSContentEncryptorBuilder.</li>  
<li>AxelVDB &lt;axel-vdb&#064riseup.net&gt; initial implementation of Shacal2.</li>  
<li>Roberto Tyley &lt;&gt; further work on completing gradle build.</li>  
<li>Waldemar Dick &lt;wdick&#064devmue.de&gt; code improvement in x500 ASN.1 package.</li>  
<li>Sid Steward &lt;sid.steward&#064pdflabs.com&gt; code improvements to ASN1Boolean.</li>  
<li>Alex Klyubin &lt;klyubin&#064google.com&gt; AlgorithmParameters check for EC key agreement.</li>  
<li>Jonathan Gillett &lt;gsoc.student&#064gmail.com&gt; Initial support for block cipher IVs in IESEngine, IES MAC length check bug fix.</li>  
<li>Andreas Reiter &lt;andreas.reiter&#064iaik.tugraz.at&gt; Reported incomplete status of CertificateVerify processing in (D)TLS server, and provided fix.</li>  
<li>Kieran Miller &lt;kieran.miller&#064gmail.com&gt; initial implementation for RFC 5649 key wrap with padding.</li>  
<li>Oliver Ehli&lt;ehli&#064arago.de&gt; Additional support for BSI plain ECDSA in the provider.</li>  
<li>Daniel Heldt&lt;Daniel.Heldt&#064cryptovision.com&gt; Initial support for encodable state message digests</li>  
<li>Robert Bushman &lt;bouncycastle&#064traxel.com&gt; Clean up of DirectKeySignature example.</li>  
<li>Maurice Aarts&lt;aarts&#064riscure.com&gt; updated to KDF generator to follow NIST SP 800-108.</li>  
<li>Franziskus Kiefer&lt;https://github.com/franziskuskiefer&gt; initial implementation of Cramer-Shoup.</li>  
<li>KB Sriram&lt;mail\_kb&#064yahoo.com&gt; testing for odd encodings for PGP User Attribute Subpackets.</li>  
<li>Marco Schulze&lt;marco&#064nightlabs.de&gt; Reported verification bug in GenericSigner.</li>  
<li>Martin Schaef&lt;https://github.com/martinschaef&gt; contributed a code-cleanup patch.</li>  
<li>dstutz&lt;https://github.com/dstutz&gt; added iteration count setters to PKCS#12 PBE mac/key generator builders.</li>  
<li>Tobias Wich&lt;tobias.wich&#064ecsec.de&gt; Provided patch for TLS to work around servers sending Supported Elliptic Curves extension unexpectedly.</li>  
<li>Hauke Mehrtens&lt;hauke&#064hauke-m.de&gt; TLS patch to add ECDHE\_ECDSA CCM ciphersuites from RFC 7251.</li>  
<li>Daniel Zimmerman&lt;dmz&#064galois.com&gt; Further key quality improvements to RSAKeyPairGenerator.</li>  
<li>Jens Kapitz&lt;j.kapitza&#064schwarze-allianz.de&gt; Iterable support in OpenPGP API, code cleanup in OpenPGP API.</li>

<li>Johan Eklund <a href="https://github.com/johan-primekey">https://github.com/johan-primekey</a>; update to RFC 6960 for OCSPObjectIdentifiers.</li>

<li>nikosn <a href="https://github.com/nikosn">https://github.com/nikosn</a>; Fix to encoding of EC private keys to ensure encoding matches order length.</li>

<li>Axel von dem Bruch <a href="https://github.com/axel-vdb">https://github.com/axel-vdb</a>; Contributions to BCrypt/OpenBSDBCrypt, original version of Blake2bDigest.</li>

<li>Derek Atkins <a href="https://github.com/derek-htfp">https://github.com/derek-htfp</a>; Documentation fixes to X9ObjectIdentifiers.</li>

<li>Peter Jr Halicky <a href="https://github.com/peto-halicky">https://github.com/peto-halicky</a>; Correction to notification/error message handling in SignedMailValidator.</li>

<li>Iartigue Pierre <a href="https://github.com/IartiguePierre">https://github.com/IartiguePierre</a>; Fix for counter signature SID in CMSSignedData.</li>

<li>Thomas Belot <a href="https://github.com/thomas-belot">https://github.com/thomas-belot</a>; initial CertPathLoopTest for demonstrating stack overflow issue.</li>

<li>Rich DiCroce <a href="https://github.com/rdicroce">https://github.com/rdicroce</a>; Initial implementation of server-side TLS-SRP support. TLS API extension to support non-blocking usage.</li>

<li>Björn Kautler <a href="https://github.com/Vampire">https://github.com/Vampire</a>; Refinements to cert path validation (authority key addition, certificate order preservation).</li>

<li>Dominik Schürmann <a href="https://github.com/dschuermann">https://github.com/dschuermann</a>; method for returning signatures/verifications without user IDs on PGPPublicKey, method for exposing S2K in PGPPrivateKey, constants for GNU protection modes in S2K classes, optional version header for armored output.</li>

<li>Michael <a href="https://github.com/MSKnete">https://github.com/MSKnete</a>; initial fix for bitStrength issue for OpenPGP EC keys, correction for generic type on RecipientInformationStore.</li>

<li>Tobias Wagner <a href="https://github.com/tobias-wagner">https://github.com/tobias-wagner</a>; Fix SecureRandom handling in BcAsymmetricKeyWrapper [#BJA-536].</li>

<li>Sergio Giro <a href="https://github.com/sgiro">https://github.com/sgiro</a>; Fixed adding of additional stores from CRL distribution point [#BJA-537]. Fixed missing null check for CRL certificate issuer [#BJA-538], removal of risky zeroisation code in PBE.java, check for salt in PBEKeys that require it.</li>

<li>bschuette <a href="https://github.com/bschuette">https://github.com/bschuette</a>; Fixed typo in DefaultSignatureAlgorithmIdentifierFinder, additional methods on CMSSignedDataParser.</li>

<li>Leonard Dallot <a href="https://github.com/dallotTazTag">https://github.com/dallotTazTag</a>; Fix to S2K usage of none on changing passwords on keys without passwords originally.</li>

<li>Jan Willem Janssen <a href="https://github.com/j.w.janssen">https://github.com/j.w.janssen</a>; Support for DSAParameters in lightweight SubjectPublicKeyInfoFactory, initial object signer verifier for BC lightweight EC.</li>

<li>Sebastian Oerding <a href="https://github.com/sebastian.oerding">https://github.com/sebastian.oerding</a>; Fixes to toString() in x509.CertificatePolicies.</li>

<li>Kai Kramer <a href="https://github.com/kai-kramer">https://github.com/kai-kramer</a>; Code to deal with orphaned chain certificates in the PKCS#12 KeyStore.</li>

<li>Benoit Charles <a href="https://github.com/benoit-charles">https://github.com/benoit-charles</a>; Fix for IES data length check on decryption.</li>

<li>Niko <a href="https://github.com/nfink95">https://github.com/nfink95</a>; fix to cast issue in getOutputSize() for ECIES.</li>

<li>akwizgran <a href="https://github.com/akwizgran">https://github.com/akwizgran</a>; Fixed clone of key in Blake2bDigest copy constructor, Blake2b reset issue for variant keys.</li>

<li>Matthias Edelhoff <a href="https://github.com/Matthias.Edelhoff">https://github.com/Matthias.Edelhoff</a>; BasicConstraintsValidation pathLen fix in PKIX certpath classes.</li>

<li>Lukasz Deputat <a href="https://github.com/lukasz-deputat">https://github.com/lukasz-deputat</a>; Fixed bugs in TlsUtils read methods [#BJA-592].</li>

<li>Justin Ludwig <a href="https://github.com/justinludwig">https://github.com/justinludwig</a>; Iterator fix for PGPObjectFactory to handle stream packets at start of iterated data.</li>

<li>André Berenguel <a href="https://github.com/aberenguel">https://github.com/aberenguel</a>; Fix to include ECNamedCurveSpec in EC AlgorithmParameterSpi.</li>

<li>Slawomir Jaranowski <a href="https://github.com/slawekjaranowski">https://github.com/slawekjaranowski</a>; Patch to make cipher/hash/signature name methods in PGP internal API public.</li>

<li>Andrey Vasilyev <a href="https://github.com/andrey-vasilyev">https://github.com/andrey-vasilyev</a>; Initial implementation of GOST R 34.11-

2012.</li>  
<li>William Glanton &lt;wglanton77&#064gmail.com&gt; Fixed bug in Poly1305 [#BJA-620].</li>  
<li>jdvorak001&lt;https://github.com/jdvorak001&gt; Speed improvements for ASN.1 ObjectIdentifier cache.</li>  
<li>Joseph Naegele &lt;jnaegele&#064grierforensics.com&gt; Patch for handling multiple certificates in a DANE SMIMEA entry.</li>  
<li>Andrew Bonventre&lt;https://github.com/andybons&gt; NullPointerException patch for WNAfUtil.</li>  
<li>The Google Security Team (Project Wycheproof) &lt;https://github.com/google/wycheproof&gt; defect analysis and additional test cases for the provider.</li>  
<li>Gorka Irazoqui &lt;girazoki&#064wpi.edu&gt; from Intel Security Center of Excellence &lt;https://security-center.intel.com/&gt; detection of the issue with AESFastEngine (CVE-2016-1000339), additional suggestions for improvement to hardening of AESEngine and finding cache sensitivities in EC key generation/signing.</li>  
<li>Joerg Senekowitsch &lt;joerg.senekowitsch&#064veridos.com&gt; patch to deal with hard coded boolean in EAC ECDSAPublicKey.</li>  
<li>Alexandr Krivoshta &lt;wipe&#064ya.ru&gt; N4 calculation fix to GOFB mode.</li>  
<li>Artem Storozhuk &lt;storajs72&#064gmail.com&gt; N4 calculation fix to GOFB mode.</li>  
<li>Na Yu &lt;na.yu&#064samsung.com&gt; Constructor patches to CMC PKIData.</li>  
<li>Evangelos Karatsiolis &lt;ekaratsiolis&#064mtg.de&gt; Corrected use of explicit tagging in X.509 PolicyConstraints class.</li>  
<li>VivleSoren &lt;https://github.com/VivleSoren&gt; additional constructor for McElieceCCA2PrivateKeyParameters.</li>  
<li>mtausig &lt;https://github.com/mtausig&gt; JavaDoc fix for MCSEncryptedDataGenerator.</li>  
<li>Anders Schack-Mulligen &lt;https://github.com/aschackmull&gt; code cleanups for CMSSignedDataParser, BrokenKDF2BytesGenerator.</li>  
<li>Sebastian Wolfgang Roland &lt;sebastianwolfgang.roland&#064stud.tu-darmstadt.de&gt; Initial XMSS/XMSS-MT implementation.</li>  
<li>didisoft &lt;https://github.com/didisoft&gt; test code for PGP signature removal involving user ids.</li>  
<li>Mike Safonov&lt;https://github.com/MikeSafonov&gt; initial implementation of GOST3410-2012 for light weight provider and JCA, parameters patches for ECGOST keys, initial implementation of GOST3412-2015, addition of fromExtensions() for CRLDistPoint.</li>  
<li>Artem Storozhuk &lt;storajs72&#064gmail.com&gt; initial implementation of DSTU7564 (digest) and DSTU7624 (cipher) and their associated modes.</li>  
<li>Andreas Glaser &lt;andreas.glaser&#064gi-de.com&gt; patch to recognise ANSSI curves for PKCS#10 requests.</li>  
<li>codeborne &lt;https://github.com/cbpx&gt; patch to correct OIDs used in public key digest parameters for ECGOST-2012.</li>  
<li>FauxFaux &lt;https://github.com/FauxFaux&gt; patch for JDK 1.9 update to DRBG.java.</li>  
<li>4garbage &lt;https://github.com/4garbage&gt; patch to allow GOST3410-94 private keys encoded as integers.</li>  
<li>ekszz &lt;https://github.com/ekszz&gt; corrections to SM2 signer to include default identity value.</li>  
<li>jminer &lt;https://github.com/jminer&gt; fix to Blake2b for hashes in range of 2\*\*64-127 to 2\*\*64.</li>  
<li>str4d &lt;https://github.com/str4d&gt; initial implementation of Blake2s</li>  
<li>Scott Woodward &lt;scott&#064bit3consulting.com&gt; performance fixes for CTRSP800DRBG.</li>  
<li>David Strawn &lt;https://github.com/isomarcte&gt; fix for off by one error in SCRYPT bounds checking.</li>  
<li>chris mccown &lt;0xchrismccown&#064gmail.com&gt; identification of serialisation issue with XMSS/XMSSMT private keys (see also CVE-2018-1000613).</li>  
<li>ZZMarquis &lt;https://github.com/ZZMarquis&gt; offset patches for SM2 encryption and decryption, improvement to Array constant time comparison.</li>  
<li>Andreas Kretschmer &lt;https://github.com/Akretsch&gt; NPE fix for CertTemplate.getVersion()</li>

- <li>Armin Lunkeit, Michael Tautenhahn &#x26; identification of M-R test issue on higher certainty values in RSA key pair generation.</li>
- <li>Vincent Breitmoser &#x26;https://github.com/Valodim&#x26; fix to ignore unnecessary checksum calculator on PGP secret key encryption.</li>
- <li>Adam Vartanian &#x26;https://github.com/flooeey&#x26; use of ShortBuffer exception and buffer size pre-check in Cipher.doFinal().</li>
- <li>Bernd &#x26;https://github.com/ecki&#x26; Fix to make PGPUtil.pipeFileContents use buffer and not leak file handle.</li>
- <li>Shartung &#x26;https://github.com/shartung&#x26; Additional EC Key Agreement algorithms in support of German BSI TR-03111.</li>
- <li>Paul Schaub &#x26;https://github.com/vanitasvitae&#x26; bringing PGPSecretKey.getUserIds() into line with PGPPublicKey.getUserIds(). Exception message fix in BcPublicKeyDataDecryptorFactory. Additional tests on PGP key ring generation.</li>
- <li>Nick of Nexxar &#x26;https://github.com/nros&#x26; update to OpenPGP package to handle a broader range of EC curves.</li>
- <li>catbref &#x26;https://github.com/catbref&#x26; sample implementation of RFC 7748/Ed25519 (incorporated work from github users Valodim and str4d as well).</li>
- <li>gerlion &#x26;https://github.com/gerlion&#x26; detection of concurrency issue with pre-1.60 EC math library.</li>
- <li>fgrieu &#x26;fgrieu&#x26;#064gmail.com&#x26; identification and suggested fixes for possible timing vulnerability in OAEP encoding and RSACoreEngine.</li>
- <li>MTG &#x26;https://github.com/mtgag&#x26; patch for decoding issues in PKIPublicationInfo and CertifiedKeyPair.</li>
- <li>Andreas Gadermaier &#x26;up.gadermaier&#x26;#064gmail.com&#x26; initial version of Argon2 PBKDF algorithm.</li>
- <li>Tony Washer &#x26;tony.washer@yahoo.co.uk&#x26; review of qTesla, Java 1.9 module code, additional test code and debugging for GOST, DSTU, and ECNR algorithms. Initial lightweight implementation of the ZUC ciphers and macs.</li>
- <li>Vincent Bouckaert &#x26;https://github.com/veebee&#x26; initial version of RFC 4998 ASN.1 classes.</li>
- <li>Tony Washer &#x26;https://github.com/tonywasher&#x26; ECIESKeyEncapsulation fix for use of OldCofactor mode. Submitted ChaCha20Poly1305 prototype.</li>
- <li>Aurimas Liutikas &#x26;https://github.com/liutikas&#x26; JavaDoc patches to ReasonsMask.</li>
- <li>Gabriel Sroka &#x26;https://github.com/gabrielsroka&#x26; corrected comments in RSA validation.</li>
- <li>sarah-mdv &#x26;https://github.com/sarah-mdv&#x26; improvements to JceKeyTransRecipientInfoGenerator, tests for JournalingSecureRandom, initial implementation of JournaledAlgorithm.</li>
- <li>Jesse Feinman &#x26;https://github.com/jessefeinman&#x26; performance optimisation in RSAKeyParameters.</li>
- <li>Gilis95 &#x26;https://github.com/Gilis95&#x26; improved JSSE compatibility for setEnabledCipherSuites.</li>
- <li>Haemin Yoo &#x26;https://github.com/yoohaemin&#x26; Javadoc fixes.</li>
- <li>Antoine Toulme &#x26;https://github.com/atoulme&#x26; Initial implementation of EthereumIESEngine.</li>
- <li>Golden Looly &#x26;https://github.com/looly&#x26; Patch for addition of C1C3C2 mode to SM2Engine.</li>
- <li>Moses Palm&#x26;r, TrueSec &#x26;Henrik.Palmer&#x26;#064truesec.se&#x26; Additional improvements to constant time comparisons.</li>
- <li>Ren&#x26; Korthaus&#x26;https://github.com/securitykernel&#x26; Update to XMSS/XMSS^MT OID values to bring them in line with RFC 8391.</li>
- <li>THausherr&#x26;https://github.com/THausherr&#x26; Addition generic support for CMS/TSP functions.</li>
- <li>Gaylor Bosson&#x26;https://github.com/Gilthoniel&#x26; Initial implementation of Blake2xs.</li>
- <li>gaellalire&#x26;https://github.com/gaellalire&#x26; Patch for unprotected PGP private keys as SExpr.</li>
- <li>im-scooter&#x26;https://github.com/im-scooter&#x26; Patch for case-insensitive behaviour of Param-Z.</li>
- <li>Nick hitchan&#x26;https://github.com/hitchan&#x26; Fix for typo in engineInitSign() in EdEc SignatureSpi.</li>
- <li>dbusche&#x26;https://github.com/dbusche&#x26; Argon2 optimisations.</li>

- <li>Daniel Heldt &lt;https://github.com/dheldt&gt; Fixing encodings in unicode tests to allow a wider range of Java compilers to work. Tweak to inheritance in JceKeyAgreeRecipient.</li>
- <li>Ugochukwu Mmaduekwe &lt;https://github.com/Xor-el&gt; Fix for initially bugged legacy Integers.numberOfLeadingZeros method.</li>
- <li>Gsealy &lt;https://github.com/Gsealy&gt; addition of PBKDF2withHmacSM3 to the provider.</li>
- <li>aphuang2013 &lt;https://github.com/aphuang2013&gt; update to path validation in EST service for ClearPath EST.</li>
- <li>Kevin Herron &lt;https://github.com/kevinherron&gt; Initial ChaCha20Poly1305 prototype.</li>
- <li>vkreml &lt;https://github.com/svkreml&gt; GOST compliance change for DefaultCMSSignatureEncryptionAlgorithmFinder.</li>
- <li>Tobias Ospelt &gt;tobias&#064pentagrid.ch&lt; Identification of 1.63 regression in ASN.1 parsing.</li>

</body>
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## 1.106 eclipse-compiler 3.10.2.v20150120 1634

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*
* Contributors:
*   IBM Corporation - initial API and implementation
*****/
package org.eclipse.text.edits;

import org.eclipse.jface.text.BadLocationException;
import org.eclipse.jface.text.IDocument;

/**
 * A CopyingRangeMarker can be used to track positions when executing
 * text edits. Additionally a copying range marker stores a local copy of the
 * text it captures when it gets executed.
 *
 * @since 3.0
 */
public final class CopyingRangeMarker extends TextEdit {

    private String fText;

    /**
     * Creates a new CopyRangeMarker for the given
     * offset and length.
     *
     * @param offset the marker's offset
     * @param length the marker's length
     */
    public CopyingRangeMarker(int offset, int length) {
        super(offset, length);
    }

    /**
     * Copy constructor
     */
    private CopyingRangeMarker(CopyingRangeMarker other) {
        super(other);
        fText= other.fText;
    }

    /** non Java-doc
     * @see TextEdit#doCopy
     */
    protected TextEdit doCopy() {
        return new CopyingRangeMarker(this);
    }
}

```

```

/*
 * @see TextEdit#accept0
 */
protected void accept0(TextEditVisitor visitor) {
    boolean visitChildren = visitor.visit(this);
    if (visitChildren) {
        acceptChildren(visitor);
    }
}

/* non Java-doc
 * @see TextEdit#performDocumentUpdating
 */
/* package */ int performDocumentUpdating(IDocument document) throws BadLocationException {
    fText= document.get(getOffset(), getLength());
    fDelta= 0;
    return fDelta;
}

/* non Java-doc
 * @see TextEdit#deleteChildren
 */
/* package */ boolean deleteChildren() {
    return false;
}
}

```

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```
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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">

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body {
    size: 8.5in 11.0in;
    margin: 0.25in 0.5in 0.25in 0.5in;
    tab-interval: 0.5in;
}
p {
    margin-left: auto;
    margin-top: 0.5em;
    margin-bottom: 0.5em;
}
p.list {
    margin-left: 0.5in;
    margin-top: 0.05em;
    margin-bottom: 0.05em;
}
</style>

</head>

<body lang="EN-US">

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# 1.108 jline 2.9

## 1.109 opentracing-noop 0.31.0

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Found in path(s):

\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/META-INF/maven/io.opentracing/opentracing-noop/pom.xml

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Found in path(s):

\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-jar/io/opentracing/noop/NoopTracer.java

\* /opt/cola/permits/1000002513\_1646171449.18/0/opentracing-noop-0-31-0-sources-

```
jar/io/opentracing/noop/NoopSpan.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopSpanContext.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopSpanBuilder.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopScopeManager.java
* /opt/cola/permits/1000002513_1646171449.18/0/opentracing-noop-0-31-0-sources-
jar/io/opentracing/noop/NoopTracerFactory.java
```

## 1.110 jackson-databind 2.10.4

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```

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\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-  
jar/org/springframework/orm/jdo/DefaultJdoDialect.java

\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/jdo/PersistenceManagerFactoryUtils.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/jpa/vendor/HibernateJpaSessionFactoryBean.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/jpa/support/SharedEntityManagerBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/ObjectRetrievalFailureException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/jpa/JpaVendorAdapter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/hibernate3/support/OpenSessionInViewFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/jpa/persistenceunit/MutablePersistenceUnitInfo.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/hibernate3/support/AsyncRequestInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/jpa/support/OpenEntityManagerInViewFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/hibernate4/HibernateTemplate.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/hibernate4/SpringSessionSynchronization.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-jar/org/springframework/orm/jpa/support/AsyncRequestInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-

jar/org/springframework/orm/hibernate4/support/AsyncRequestInterceptor.java  
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jar/org/springframework/orm/jdo/support/OpenPersistenceManagerInViewFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-  
jar/org/springframework/orm/jpa/vendor/SpringHibernateJpaPersistenceProvider.java  
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jar/org/springframework/orm/hibernate4/support/OpenSessionInViewFilter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069084550\_1594481475.48/0/spring-orm-4-3-19-release-sources-  
jar/org/springframework/orm/jdo/PersistenceManagerHolder.java  
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```
*/
/**
 * Create a transactional EntityManager proxy for the given EntityManagerFactory.
 * @param emf the EntityManagerFactory to obtain EntityManagers from as needed
 * @param properties the properties to be passed into the
 * { @code createEntityManager } call (may be { @code null })
 * @param entityManagerInterfaces the interfaces to be implemented by the
 * EntityManager. Allows the addition or specification of proprietary interfaces.
 * @return a shareable transactional EntityManager proxy
 */
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069084550_1594481475.48/0/spring-orm-4-3-19-release-sources-
jar/org/springframework/orm/jpa/SharedEntityManagerCreator.java
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```
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 */
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```
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jar/org/springframework/orm/jpa/vendor/HibernateJpaVendorAdapter.java
* /opt/ws_local/PERMITS_SQL/1069084550_1594481475.48/0/spring-orm-4-3-19-release-sources-
jar/org/springframework/orm/jpa/AbstractEntityManagerFactoryBean.java
* /opt/ws_local/PERMITS_SQL/1069084550_1594481475.48/0/spring-orm-4-3-19-release-sources-
jar/org/springframework/orm/jpa/ExtendedEntityManagerCreator.java
* /opt/ws_local/PERMITS_SQL/1069084550_1594481475.48/0/spring-orm-4-3-19-release-sources-
jar/org/springframework/orm/jpa/vendor/AbstractJpaVendorAdapter.java
* /opt/ws_local/PERMITS_SQL/1069084550_1594481475.48/0/spring-orm-4-3-19-release-sources-
jar/org/springframework/orm/jpa/persistenceunit/DefaultPersistenceUnitManager.java
* /opt/ws_local/PERMITS_SQL/1069084550_1594481475.48/0/spring-orm-4-3-19-release-sources-
jar/org/springframework/orm/jpa/vendor/EclipseLinkJpaVendorAdapter.java
```

# 1.114 spring-security-config 3.2.4.RELEASE

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## 1.119 commons-pool 2.4.3

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## 1.120 sesame-rio-api 2.7.16

## 1.121 grpc-core 1.9.0

## 1.122 hazelcast-client-protocol 1.4.1

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```
package com.hazelcast.security.permission;
```

```
public class QueuePermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public QueuePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}

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```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;  
import java.security.PermissionCollection;  
import java.util.Enumeration;
```

```
public final class AllPermissions extends ClusterPermission {
```

```
    public AllPermissions() {  
        super("<all permissions>");  
    }  
}
```

```
    @Override  
    public boolean implies(Permission permission) {  
        return true;  
    }  
}
```

```
    @Override  
    public String getActions() {  
        return "<all actions>";  
    }  
}
```

```
    @Override  
    public PermissionCollection newPermissionCollection() {  
        return new AllPermissionsCollection();  
    }  
}
```

```
    @Override  
    public String toString() {  
        return "<allow all permissions>";  
    }  
}
```

```
    @Override  
    public boolean equals(Object obj) {  
        return obj instanceof AllPermissions;  
    }  
}
```

```

@Override
public int hashCode() {
    return 111;
}

public static final class AllPermissionsCollection extends PermissionCollection {
    private static final AllPermissions ALL_PERMISSIONS = new AllPermissions();
    private boolean all;

    public AllPermissionsCollection() {
    }

    public AllPermissionsCollection(boolean all) {
        this.all = all;
    }

    @Override
    public void add(Permission permission) {
        if (permission instanceof AllPermissions) {
            all = true;
        }
    }

    @Override
    public boolean implies(Permission permission) {
        return all;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {
            boolean more = all;

            @Override
            public boolean hasMoreElements() {
                return more;
            }

            @Override
            public Permission nextElement() {
                more = false;
                return ALL_PERMISSIONS;
            }
        };
    }

    @Override

```

```

public int hashCode() {
    return all ? 13 : -13;
}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    AllPermissionsCollection other = (AllPermissionsCollection) obj;
    return all == other.all;
}

@Override
public String toString() {
    return "<allow all permissions>";
}
}
}
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package com.hazelcast.security.permission;

public class ReplicatedMapPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;
    private static final int READ = 16;

```

```

private static final int LISTEN = 32;
private static final int LOCK = 64;
private static final int INDEX = 128;
private static final int INTERCEPT = 256;
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |
INTERCEPT;

```

```

public ReplicatedMapPermission(String name, String... actions) {
    super(name, actions);
}

```

@Override

```

protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        } else if (ActionConstants.ACTION_LOCK.equals(action)) {
            mask |= LOCK;
        } else if (ActionConstants.ACTION_INDEX.equals(action)) {
            mask |= INDEX;
        } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
            mask |= INTERCEPT;
        }
    }
    return mask;
}

```

/\*

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```
package com.hazelcast.security.permission;
```

```
public class MapPermission extends InstancePermission {
```

```
    private static final int PUT = 4;  
    private static final int REMOVE = 8;  
    private static final int READ = 16;  
    private static final int LISTEN = 32;  
    private static final int LOCK = 64;  
    private static final int INDEX = 128;  
    private static final int INTERCEPT = 256;  
    private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN | LOCK | INDEX |  
INTERCEPT;
```

```
    public MapPermission(String name, String... actions) {  
        super(name, actions);  
    }  
}
```

```
@Override
```

```
protected int initMask(String[] actions) {  
    int mask = NONE;  
    for (String action : actions) {  
        if (ActionConstants.ACTION_ALL.equals(action)) {  
            return ALL;  
        }  
  
        if (ActionConstants.ACTION_CREATE.equals(action)) {  
            mask |= CREATE;  
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {  
            mask |= DESTROY;  
        } else if (ActionConstants.ACTION_PUT.equals(action)) {  
            mask |= PUT;  
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {  
            mask |= REMOVE;  
        } else if (ActionConstants.ACTION_READ.equals(action)) {  
            mask |= READ;  
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {  
            mask |= LISTEN;  
        }  
    }  
}
```

```

    } else if (ActionConstants.ACTION_LOCK.equals(action)) {
        mask |= LOCK;
    } else if (ActionConstants.ACTION_INDEX.equals(action)) {
        mask |= INDEX;
    } else if (ActionConstants.ACTION_INTERCEPT.equals(action)) {
        mask |= INTERCEPT;
    }
}
return mask;
}
}
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 */

package com.hazelcast.security.permission;

public class AtomicReferencePermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicReferencePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }
        }
    }
}

```

```

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
            mask |= MODIFY;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        }
    }
    return mask;
}
}
}
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 */

package com.hazelcast.security.permission;

import com.hazelcast.config.matcher.WildcardConfigPatternMatcher;

import java.security.Permission;

/**
 * TODO: Object Permission
 */
public abstract class InstancePermission extends ClusterPermission {

    protected static final int NONE = 0;
    protected static final int CREATE = 1;
    protected static final int DESTROY = 2;

    private static final WildcardConfigPatternMatcher CONFIG_PATTERN_MATCHER = new
WildcardConfigPatternMatcher();

    protected final int mask;

```

```

protected final String actions;

public InstancePermission(String name, String... actions) {
    super(name);
    if (name == null || "".equals(name)) {
        throw new IllegalArgumentException("Permission name is mandatory!");
    }
    mask = initMask(actions);

    final StringBuilder s = new StringBuilder();
    for (String action : actions) {
        s.append(action).append(" ");
    }
    this.actions = s.toString();
}

/**
 * init mask
 */
protected abstract int initMask(String[] actions);

@Override
public boolean implies(Permission permission) {
    if (this.getClass() != permission.getClass()) {
        return false;
    }

    InstancePermission that = (InstancePermission) permission;

    boolean maskTest = ((this.mask & that.mask) == that.mask);
    if (!maskTest) {
        return false;
    }

    return CONFIG_PATTERN_MATCHER.matches(getName(), that.getName());
}

@Override
public String getActions() {
    return actions;
}

@Override
public int hashCode() {
    int result = super.hashCode();
    result = 31 * result + mask;
    result = 31 * result + actions.hashCode();
    return result;
}

```

```

}

@Override
public boolean equals(Object obj) {
    if (this == obj) {
        return true;
    }
    if (obj == null) {
        return false;
    }
    if (getClass() != obj.getClass()) {
        return false;
    }
    InstancePermission other = (InstancePermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    if (mask != other.mask) {
        return false;
    }
    return true;
}
}
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 */

package com.hazelcast.security.permission;

public class CachePermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int REMOVE = 8;

```

```

private static final int READ = 16;
private static final int LISTEN = 32;
private static final int ALL = CREATE | DESTROY | PUT | REMOVE | READ | LISTEN;

public CachePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_PUT.equals(action)) {
            mask |= PUT;
        } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
            mask |= REMOVE;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}
}
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 */

```

```

package com.hazelcast.security.permission;

public class CardinalityEstimatorPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public CardinalityEstimatorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
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```

```

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*/

package com.hazelcast.security.permission;

public class ListPermission extends InstancePermission {

    private static final int ADD = 4;
    private static final int READ = 8;
    private static final int REMOVE = 16;
    private static final int LISTEN = 32;
    private static final int ALL = ADD | REMOVE | READ | CREATE | DESTROY | LISTEN;

    public ListPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_ADD.equals(action)) {
                mask |= ADD;
            } else if (ActionConstants.ACTION_REMOVE.equals(action)) {
                mask |= REMOVE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
                mask |= LISTEN;
            }
        }
        return mask;
    }
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
public class TopicPermission extends InstancePermission {

    private static final int PUBLISH = 4;
    private static final int LISTEN = 8;
    private static final int ALL = CREATE | DESTROY | LISTEN | PUBLISH;

    public TopicPermission(String name, String... actions) {
        super(name, actions);
    }
}
```

```
@Override
```

```
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_PUBLISH.equals(action)) {
            mask |= PUBLISH;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_LISTEN.equals(action)) {
            mask |= LISTEN;
        }
    }
    return mask;
}
}
```

```
/*
```

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*/

```

```
package com.hazelcast.security.permission;
```

```

public class ExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public ExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
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\*/

```
package com.hazelcast.security.permission;
```

```
import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Collections;
import java.util.Enumeration;
import java.util.HashSet;
import java.util.Iterator;
import java.util.Set;
```

```
public class ClusterPermissionCollection extends PermissionCollection {
```

```
    final Set<Permission> perms = new HashSet<Permission>();
    final Class<? extends Permission> permClass;
```

```
    public ClusterPermissionCollection() {
        permClass = null;
    }
```

```
    public ClusterPermissionCollection(Class<? extends Permission> permClass) {
        this.permClass = permClass;
    }
```

```
    @Override
```

```
    public void add(Permission permission) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        boolean shouldAdd = (permClass != null && permClass.equals(permission.getClass()))
            || (permission instanceof ClusterPermission);
```

```
        if (shouldAdd && !implies(permission)) {
            perms.add(permission);
        }
    }
```

```
    public void add(PermissionCollection permissions) {
        if (isReadOnly()) {
            throw new SecurityException("ClusterPermissionCollection is read-only!");
        }
        if (permissions instanceof ClusterPermissionCollection) {
            for (Permission p : ((ClusterPermissionCollection) permissions).perms) {
```

```

        add(p);
    }
}

@Override
public boolean implies(Permission permission) {
    for (Permission p : perms) {
        if (p.implies(permission)) {
            return true;
        }
    }
    return false;
}

public void compact() {
    if (isReadOnly()) {
        throw new SecurityException("ClusterPermissionCollection is read-only!");
    }
    final Iterator<Permission> iter = perms.iterator();
    while (iter.hasNext()) {
        final Permission perm = iter.next();
        boolean implies = false;
        for (Permission p : perms) {
            if (p != perm && p.implies(perm)) {
                implies = true;
                break;
            }
        }
        if (implies) {
            iter.remove();
        }
    }
    setReadOnly();
}

@Override
public Enumeration<Permission> elements() {
    return Collections.enumeration(perms);
}

public Set<Permission> getPermissions() {
    return Collections.unmodifiableSet(perms);
}

@Override
public String toString() {
    return "ClusterPermissionCollection [permClass=" + permClass + "];";
}

```

```

    }
}
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 */

```

```
package com.hazelcast.security.permission;
```

```

import com.hazelcast.cache.impl.CacheService;
import com.hazelcast.cardinality.impl.CardinalityEstimatorService;
import com.hazelcast.collection.impl.list.ListService;
import com.hazelcast.collection.impl.queue.QueueService;
import com.hazelcast.collection.impl.set.SetService;
import com.hazelcast.concurrent.atomiclong.AtomicLongService;
import com.hazelcast.concurrent.atomicreference.AtomicReferenceService;
import com.hazelcast.concurrent.countdownlatch.CountDownLatchService;
import com.hazelcast.concurrent.idgen.IdGeneratorService;
import com.hazelcast.concurrent.lock.LockService;
import com.hazelcast.concurrent.semaphore.SemaphoreService;
import com.hazelcast.durableexecutor.impl.DistributedDurableExecutorService;
import com.hazelcast.executor.impl.DistributedExecutorService;
import com.hazelcast.map.impl.MapService;
import com.hazelcast.mapreduce.impl.MapReduceService;
import com.hazelcast.multimap.impl.MultiMapService;
import com.hazelcast.replicatedmap.impl.ReplicatedMapService;
import com.hazelcast.ringbuffer.impl.RingbufferService;
import com.hazelcast.topic.impl.TopicService;

```

```

import java.security.Permission;
import java.util.HashMap;
import java.util.Map;

```

```

public final class ActionConstants {

    public static final String ACTION_ALL = "all";
    public static final String ACTION_CREATE = "create";

```

```

public static final String ACTION_DESTROY = "destroy";
public static final String ACTION_MODIFY = "modify";
public static final String ACTION_READ = "read";
public static final String ACTION_REMOVE = "remove";
public static final String ACTION_LOCK = "lock";
public static final String ACTION_LISTEN = "listen";
public static final String ACTION_RELEASE = "release";
public static final String ACTION_ACQUIRE = "acquire";
public static final String ACTION_PUT = "put";
public static final String ACTION_ADD = "add";
public static final String ACTION_INDEX = "index";
public static final String ACTION_INTERCEPT = "intercept";
public static final String ACTION_PUBLISH = "publish";
public static final String ACTION_AGGREGATE = "aggregate";
public static final String ACTION_PROJECTION = "projection";

public static final String LISTENER_INSTANCE = "instance";
public static final String LISTENER_MEMBER = "member";
public static final String LISTENER_MIGRATION = "migration";

private static final Map<String, PermissionFactory> PERMISSION_FACTORY_MAP = new HashMap<String,
PermissionFactory>();

static {
    PERMISSION_FACTORY_MAP.put(QueueService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new QueuePermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(MultiMapService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new MultiMapPermission(name, actions);
        }
    });
    PERMISSION_FACTORY_MAP.put(ListService.SERVICE_NAME, new PermissionFactory() {
        @Override
        public Permission create(String name, String... actions) {
            return new ListPermission(name, actions);
        }
    });
}

```

```

PERMISSION_FACTORY_MAP.put(SetService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SetPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicLongService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CountDownLatchService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CountDownLatchPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(SemaphoreService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new SemaphorePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(TopicService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new TopicPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(LockService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new LockPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(IdGeneratorService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicLongPermission(IdGeneratorService.ATOMIC_LONG_NAME + name, actions);
    }
}

```

```

});
PERMISSION_FACTORY_MAP.put(MapReduceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new MapReducePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(ReplicatedMapService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new ReplicatedMapPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(AtomicReferenceService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new AtomicReferencePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CacheService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CachePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(RingbufferService.SERVICE_NAME, new PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new RingBufferPermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(DistributedDurableExecutorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new DurableExecutorServicePermission(name, actions);
    }
});
PERMISSION_FACTORY_MAP.put(CardinalityEstimatorService.SERVICE_NAME, new
PermissionFactory() {
    @Override
    public Permission create(String name, String... actions) {
        return new CardinalityEstimatorPermission(name, actions);
    }
});
}

private ActionConstants() {

```

```

}

private interface PermissionFactory {
    Permission create(String name, String... actions);
}

/**
 * Creates a permission
 *
 * @param name
 * @param serviceName
 * @param actions
 * @return the created Permission
 * @throws java.lang.IllegalArgumentException if there is no service found with the given serviceName.
 */
public static Permission getPermission(String name, String serviceName, String... actions) {
    PermissionFactory permissionFactory = PERMISSION_FACTORY_MAP.get(serviceName);
    if (permissionFactory == null) {
        throw new IllegalArgumentException("No permissions found for service: " + serviceName);
    }

    return permissionFactory.create(name, actions);
}

}

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 */

package com.hazelcast.security.permission;

public class SemaphorePermission extends InstancePermission {

    private static final int ACQUIRE = 4;
    private static final int RELEASE = 8;
    private static final int READ = 16;

```

```

private static final int ALL = CREATE | DESTROY | ACQUIRE | RELEASE | READ;

public SemaphorePermission(String name, String... actions) {
    super(name, actions);
}

@Override
protected int initMask(String[] actions) {
    int mask = NONE;
    for (String action : actions) {
        if (ActionConstants.ACTION_ALL.equals(action)) {
            return ALL;
        }

        if (ActionConstants.ACTION_CREATE.equals(action)) {
            mask |= CREATE;
        } else if (ActionConstants.ACTION_ACQUIRE.equals(action)) {
            mask |= ACQUIRE;
        } else if (ActionConstants.ACTION_RELEASE.equals(action)) {
            mask |= RELEASE;
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
            mask |= DESTROY;
        } else if (ActionConstants.ACTION_READ.equals(action)) {
            mask |= READ;
        }
    }
    return mask;
}
}
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 */

package com.hazelcast.security.permission;

```

```

public class RingBufferPermission extends InstancePermission {

    private static final int PUT = 4;
    private static final int READ = 8;
    private static final int ALL = PUT | READ;

    public RingBufferPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_PUT.equals(action)) {
                mask |= PUT;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}
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 */

package com.hazelcast.security.permission;

```

```

public class AtomicLongPermission extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public AtomicLongPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
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 */

```

```

package com.hazelcast.security.permission;

public class MultiMapPermission extends MapPermission {

    public MultiMapPermission(String name, String... actions) {
        super(name, actions);
    }
}
/*
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 */

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;
import java.util.Enumeration;

public class DenyAllPermissionCollection extends PermissionCollection {

    public DenyAllPermissionCollection() {
    }

    @Override
    public void add(Permission permission) {
    }

    @Override
    public boolean implies(Permission permission) {
        return false;
    }

    @Override
    public Enumeration<Permission> elements() {
        return new Enumeration<Permission>() {

```

```

    @Override
    public boolean hasMoreElements() {
        return false;
    }

    @Override
    public Permission nextElement() {
        return null;
    }
};
}

@Override
public int hashCode() {
    return 37;
}

@Override
public String toString() {
    return "<deny all permissions>";
}

@Override
public boolean equals(Object obj) {
    return obj instanceof DenyAllPermissionCollection;
}
}
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 */

package com.hazelcast.security.permission;

public class SetPermission extends ListPermission {

    public SetPermission(String name, String... actions) {

```

```

    super(name, actions);
}
}
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package com.hazelcast.security.permission;

import java.security.Permission;

public class TransactionPermission extends ClusterPermission {

    public TransactionPermission() {
        super("<transaction>");
    }

    @Override
    public boolean implies(Permission permission) {
        return getClass() == permission.getClass();
    }

    @Override
    public String getActions() {
        return "transaction";
    }
}
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- \*/

```

package com.hazelcast.security.permission;

import java.security.Permission;
import java.security.PermissionCollection;

public abstract class ClusterPermission extends Permission {

    private int hashCode;

    public ClusterPermission(String name) {
        super(name);
    }

    @Override
    public PermissionCollection newPermissionCollection() {
        return new ClusterPermissionCollection(getClass());
    }

    @Override
    public int hashCode() {
        if (hashCode == 0) {
            final int prime = 31;
            int result = 1;
            if (getName() == null) {
                result = prime * result + 13;
            } else {
                result = prime * result + getName().hashCode();
            }
            hashCode = result;
        }
        return hashCode;
    }

    @Override
    public boolean equals(Object obj) {
        if (this == obj) {
            return true;
        }
        if (obj == null) {
            return false;
        }

```

```

    if (getClass() != obj.getClass()) {
        return false;
    }
    ClusterPermission other = (ClusterPermission) obj;
    if (getName() == null && other.getName() != null) {
        return false;
    }
    if (!getName().equals(other.getName())) {
        return false;
    }
    return true;
}
}
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 */

/**
 * Contains all the security permissions
 */
package com.hazelcast.security.permission;
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 */

```

```

package com.hazelcast.security.permission;

public class ScheduledExecutorPermission
    extends InstancePermission {

    private static final int READ = 4;
    private static final int MODIFY = 8;

    private static final int ALL = READ | MODIFY | CREATE | DESTROY;

    public ScheduledExecutorPermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            } else if (ActionConstants.ACTION_MODIFY.equals(action)) {
                mask |= MODIFY;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
public class LockPermission extends InstancePermission {

    private static final int LOCK = 4;
    private static final int READ = 8;
    private static final int ALL = CREATE | DESTROY | LOCK | READ;

    public LockPermission(String key, String... actions) {
        super(key, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            } else if (ActionConstants.ACTION_LOCK.equals(action)) {
                mask |= LOCK;
            } else if (ActionConstants.ACTION_READ.equals(action)) {
                mask |= READ;
            }
        }
        return mask;
    }
}
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*/
```

```
package com.hazelcast.security.permission;
```

```
public class CountdownLatchPermission extends InstancePermission {
```

```
    private static final int READ = 4;  
    private static final int MODIFY = 8;  
    private static final int ALL = CREATE | DESTROY | READ | MODIFY;
```

```
    public CountdownLatchPermission(String name, String... actions) {  
        super(name, actions);  
    }  
}
```

```
@Override
```

```
protected int initMask(String[] actions) {  
    int mask = NONE;  
    for (String action : actions) {  
        if (ActionConstants.ACTION_ALL.equals(action)) {  
            return ALL;  
        }  
  
        if (ActionConstants.ACTION_CREATE.equals(action)) {  
            mask |= CREATE;  
        } else if (ActionConstants.ACTION_DESTROY.equals(action)) {  
            mask |= DESTROY;  
        } else if (ActionConstants.ACTION_READ.equals(action)) {  
            mask |= READ;  
        } else if (ActionConstants.ACTION_MODIFY.equals(action)) {  
            mask |= MODIFY;  
        }  
    }  
    return mask;  
}
```

```
/*
```

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*/
```

```
package com.hazelcast.security.permission;
```

```
/**
```

```
* To be able to map-reduce from a client in a secure environment
```

```
*/
```

```
public class MapReducePermission extends InstancePermission {
```

```
    private static final int ALL = CREATE | DESTROY;
```

```
    public MapReducePermission(String name, String... actions) {  
        super(name, actions);  
    }  
  
    @Override
```

```
    protected int initMask(String[] actions) {
```

```
        int mask = NONE;
```

```
        for (String action : actions) {
```

```
            if (ActionConstants.ACTION_ALL.equals(action)) {
```

```
                return ALL;
```

```
            }  
  
            if (ActionConstants.ACTION_CREATE.equals(action)) {
```

```
                mask |= CREATE;
```

```
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
```

```
                mask |= DESTROY;
```

```
            }  
        }  
        return mask;  
    }  
}
```

```
/*
```

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*/
```

```
package com.hazelcast.security.permission;

public class DurableExecutorServicePermission extends InstancePermission {

    private static final int ALL = CREATE | DESTROY;

    public DurableExecutorServicePermission(String name, String... actions) {
        super(name, actions);
    }

    @Override
    protected int initMask(String[] actions) {
        int mask = NONE;
        for (String action : actions) {
            if (ActionConstants.ACTION_ALL.equals(action)) {
                return ALL;
            }

            if (ActionConstants.ACTION_CREATE.equals(action)) {
                mask |= CREATE;
            } else if (ActionConstants.ACTION_DESTROY.equals(action)) {
                mask |= DESTROY;
            }
        }
        return mask;
    }
}
```

## 1.123 aspectj-tools 1.8.13

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## 1.124 minimal-json 0.9.4

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## 1.125 shiro 1.2.2

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```

* under the License.
*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

import java.util.Collection;

/**
 * A RolePermissionResolver resolves a String value and converts it into a Collection of
 * { @link org.apache.shiro.authz.Permission } instances.
 * <p/>
 * In some cases a { @link org.apache.shiro.realm.Realm } may only be able to return a list of roles. This
 * component allows an application to resolve the roles into permissions.
 *
 */
public interface RolePermissionResolver {

    /**
     * Resolves a Collection of Permissions based on the given String representation.
     *
     * @param roleString the String representation of a role name to resolve.
     * @return a Collection of Permissions based on the given String representation.
     */
    Collection<Permission> resolvePermissionsInRole(String roleString);

}

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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

```

```

/**
 * A {@code PermissionResolver} resolves a String value and converts it into a
 * {@link org.apache.shiro.authz.Permission Permission} instance.
 * <p/>
 * The default {@link WildcardPermissionResolver} should be
 * suitable for most purposes, which constructs {@link WildcardPermission} objects.
 * However, any resolver may be configured if an application wishes to use different
 * {@link org.apache.shiro.authz.Permission} implementations.
 * <p/>
 * A {@code PermissionResolver} is used by many Shiro components such as annotations, property file
 * configuration, URL configuration, etc. It is useful whenever a String representation of a permission is specified
 * and that String needs to be converted to a Permission instance before executing a security check.
 * <p/>
 * Shiro chooses to support {@link WildcardPermission Wildcardpermission}s by default in almost all components
 * and
 * we do that in the form of the {@link WildcardPermissionResolver WildcardPermissionResolver}. One of the
 * nice
 * things about {@code WildcardPermission}s being supported by default is that it makes it very easy to
 * store complex permissions in the database - and also makes it very easy to represent permissions in JSP files,
 * annotations, etc., where a simple string representation is useful.
 * <p/>
 * Although this happens to be the Shiro default, you are of course free to provide custom
 * String-to-Permission conversion by providing Shiro components any instance of this interface.
 *
 * @see org.apache.shiro.authz.ModularRealmAuthorizer#setPermissionResolver(PermissionResolver)
 * ModularRealmAuthorizer.setPermissionResolver
 * @see org.apache.shiro.realm.AuthorizingRealm#setPermissionResolver(PermissionResolver)
 * AuthorizingRealm.setPermissionResolver
 * @see PermissionResolverAware PermissionResolverAware
 * @since 0.9
 */
public interface PermissionResolver {

    /**
     * Resolves a Permission based on the given String representation.
     *
     * @param permissionString the String representation of a permission.
     * @return A Permission object that can be used internally to determine a subject's permissions.
     * @throws InvalidPermissionStringException
     *         if the permission string is not valid for this resolver.
     */
    Permission resolvePermission(String permissionString);

}

```

Apache Shiro

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The implementation for `org.apache.shiro.util.SoftHashMap` is based  
on initial ideas from Dr. Heinz Kabutz's publicly posted version  
available at <http://www.javaspecialists.eu/archive/Issue015.html>,  
with continued modifications.

Certain parts (`StringUtils` etc.) of the source code for this  
product was copied for simplicity and to reduce dependencies  
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```

```
package org.apache.shiro.authz.permission;
```

```
import static org.junit.Assert.assertFalse;  
import static org.junit.Assert.assertTrue;  
import org.junit.Test;
```

```
/**  
 * @since 0.9  
 */  
public class WildcardPermissionTest {  
  
    @Test(expected = IllegalArgumentException.class)  
    public void testNull() {  
        new WildcardPermission(null);  
    }  
  
    @Test(expected = IllegalArgumentException.class)
```

```

public void testEmpty() {
    new WildcardPermission("");
}

@Test(expected = IllegalArgumentException.class)
public void testBlank() {
    new WildcardPermission(" ");
}

@Test(expected = IllegalArgumentException.class)
public void testOnlyDelimiters() {
    new WildcardPermission("::,::,,:");
}

@Test
public void testNamed() {
    WildcardPermission p1, p2;

    // Case insensitive, same
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("something");
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case insensitive, different case
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("SOMETHING");
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case insensitive, different word
    p1 = new WildcardPermission("something");
    p2 = new WildcardPermission("else");
    assertFalse(p1.implies(p2));
    assertFalse(p2.implies(p1));

    // Case sensitive same
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("BLAHBLAH", false);
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));

    // Case sensitive, different case
    p1 = new WildcardPermission("BLAHBLAH", false);
    p2 = new WildcardPermission("bLAHBLAH", false);
    assertTrue(p1.implies(p2));
    assertTrue(p2.implies(p1));
}

```

```

// Case sensitive, different word
p1 = new WildcardPermission("BLAHBLAH", false);
p2 = new WildcardPermission("whatwhat", false);
assertFalse(p1.implies(p2));
assertFalse(p2.implies(p1));

}

@Test
public void testLists() {
    WildcardPermission p1, p2, p3;

    p1 = new WildcardPermission("one,two");
    p2 = new WildcardPermission("one");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two,three");
    p2 = new WildcardPermission("one,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one,two:one,two,three");
    p2 = new WildcardPermission("one:three");
    p3 = new WildcardPermission("one:two,three");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));
    assertTrue(p1.implies(p3));
    assertFalse(p2.implies(p3));
    assertTrue(p3.implies(p2));

    p1 = new WildcardPermission("one,two,three:one,two,three:one,two");
    p2 = new WildcardPermission("one:three:two");
    assertTrue(p1.implies(p2));
    assertFalse(p2.implies(p1));

    p1 = new WildcardPermission("one");
    p2 = new WildcardPermission("one:two,three,four");
    p3 = new WildcardPermission("one:two,three,four:five:six:seven");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertFalse(p2.implies(p1));
    assertFalse(p3.implies(p1));
    assertTrue(p2.implies(p3));

}

@Test

```

```

public void testWildcards() {
    WildcardPermission p1, p2, p3, p4, p5, p6, p7, p8;

    p1 = new WildcardPermission("*");
    p2 = new WildcardPermission("one");
    p3 = new WildcardPermission("one:two");
    p4 = new WildcardPermission("one,two:three,four");
    p5 = new WildcardPermission("one,two:three,four,five:six:seven,eight");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertTrue(p1.implies(p4));
    assertTrue(p1.implies(p5));

    p1 = new WildcardPermission("newsletter:*");
    p2 = new WildcardPermission("newsletter:read");
    p3 = new WildcardPermission("newsletter:read,write");
    p4 = new WildcardPermission("newsletter:*");
    p5 = new WildcardPermission("newsletter:*:*");
    p6 = new WildcardPermission("newsletter:*:read");
    p7 = new WildcardPermission("newsletter:write:*");
    p8 = new WildcardPermission("newsletter:read,write:*");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertTrue(p1.implies(p4));
    assertTrue(p1.implies(p5));
    assertTrue(p1.implies(p6));
    assertTrue(p1.implies(p7));
    assertTrue(p1.implies(p8));

    p1 = new WildcardPermission("newsletter:*:*");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertTrue(p1.implies(p4));
    assertTrue(p1.implies(p5));
    assertTrue(p1.implies(p6));
    assertTrue(p1.implies(p7));
    assertTrue(p1.implies(p8));

    p1 = new WildcardPermission("newsletter:*:*:*");
    assertTrue(p1.implies(p2));
    assertTrue(p1.implies(p3));
    assertTrue(p1.implies(p4));
    assertTrue(p1.implies(p5));
    assertTrue(p1.implies(p6));
    assertTrue(p1.implies(p7));
    assertTrue(p1.implies(p8));
}

```

```

p1 = new WildcardPermission("newsletter:*.read");
p2 = new WildcardPermission("newsletter:123.read");
p3 = new WildcardPermission("newsletter:123,456.read,write");
p4 = new WildcardPermission("newsletter.read");
p5 = new WildcardPermission("newsletter.read,write");
p6 = new WildcardPermission("newsletter:123.read:write");
assertTrue(p1.implies(p2));
assertFalse(p1.implies(p3));
assertFalse(p1.implies(p4));
assertFalse(p1.implies(p5));
assertTrue(p1.implies(p6));

p1 = new WildcardPermission("newsletter:*.read:*");
assertTrue(p1.implies(p2));
assertTrue(p1.implies(p6));

}

}

```

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\*/

package org.apache.shiro.authz.permission;

```

import java.io.Serializable;

import org.apache.shiro.authz.Permission;

/**
 * An all <tt>AllPermission</tt> instance is one that always implies any other permission; that is, its
 * { @link #implies implies } method always returns <tt>true</tt>.
 *
 * <p>You should be very careful about the users, roles, and/or groups to which this permission is assigned since
 * those respective entities will have the ability to do anything. As such, an instance of this class
 * is typically only assigned only to "root" or "administrator" users or roles.
 *
 * @since 0.1
 */
public class AllPermission implements Permission, Serializable {

    /**
     * Always returns <tt>true</tt>, indicating any Subject granted this permission can do anything.
     *
     * @param p the Permission to check for implies logic.
     * @return <tt>true</tt> always, indicating any Subject grated this permission can do anything.
     */
    public boolean implies(Permission p) {
        return true;
    }
}

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 * specific language governing permissions and limitations
 * under the License.
 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;

```

```

/**
 * <tt>PermissionResolver</tt> implementation that returns a new { @link WildcardPermission
 WildcardPermission}
 * based on the input string.
 *
 * @since 0.9
 */
public class WildcardPermissionResolver implements PermissionResolver {

    /**
     * Returns a new { @link WildcardPermission WildcardPermission} instance constructed based on the specified
     * <tt>permissionString</tt>.
     *
     * @param permissionString the permission string to convert to a { @link Permission Permission} instance.
     * @return a new { @link WildcardPermission WildcardPermission} instance constructed based on the specified
     *     <tt>permissionString</tt>
     */
    public Permission resolvePermission(String permissionString) {
        return new WildcardPermission(permissionString);
    }
}
/**
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 */
package org.apache.shiro.authz.permission;

import org.apache.shiro.authz.Permission;
import org.apache.shiro.util.CollectionUtils;

import java.io.Serializable;
import java.util.ArrayList;

```

```
import java.util.LinkedHashSet;
```

```
import java.util.List;
```

```
import java.util.Set;
```

```
/**
```

```
* A WildcardPermission is a very flexible permission construct supporting multiple levels of  
* permission matching. However, most people will probably follow some standard conventions as explained below.
```

```
* <p/>
```

```
* <h3>Simple Usage</h3>
```

```
* <p/>
```

```
* In the simplest form, WildcardPermission can be used as a simple permission string. You could  
grant a
```

```
* user an "editNewsletter" permission and then check to see if the user has the editNewsletter
```

```
* permission by calling
```

```
* <p/>
```

```
* subject.isPermitted("editNewsletter")
```

```
* <p/>
```

```
* This is (mostly) equivalent to
```

```
* <p/>
```

```
* subject.isPermitted( new WildcardPermission("editNewsletter") )
```

```
* <p/>
```

```
* but more on that later.
```

```
* <p/>
```

```
* The simple permission string may work for simple applications, but it requires you to have permissions like
```

```
* "viewNewsletter", "deleteNewsletter",
```

```
* "createNewsletter", etc. You can also grant a user "*" permissions
```

```
* using the wildcard character (giving this class its name), which means they have all permissions. But
```

```
* using this approach there's no way to just say a user has "all newsletter permissions".
```

```
* <p/>
```

```
* For this reason, WildcardPermission supports multiple levels of permissioning.
```

```
* <p/>
```

```
* <h3>Multiple Levels</h3>
```

```
* <p/>
```

```
* WildcardPermission also supports the concept of multiple levels. For example, you could
```

```
* restructure the previous simple example by granting a user the permission "newsletter:edit".
```

```
* The colon in this example is a special character used by the WildcardPermission that delimits the
```

```
* next token in the permission.
```

```
* <p/>
```

```
* In this example, the first token is the domain that is being operated on
```

```
* and the second token is the action being performed. Each level can contain multiple values. So you
```

```
* could simply grant a user the permission "newsletter:view,edit,create" which gives them
```

```
* access to perform view, edit, and create actions in the
```

```
newsletter
```

```
* domain. Then you could check to see if the user has the "newsletter:create"
```

```
* permission by calling
```

```
* <p/>
```

```
* subject.isPermitted("newsletter:create")
```

```
* <p/>
```

\* (which would return true).

\* `<p/>`

\* In addition to granting multiple permissions via a single string, you can grant all permission for a particular level. So if you wanted to grant a user all actions in the `<code>newsletter</code>` domain, you could simply give them `<code>"newsletter:*"</code>`. Now, any permission check for `<code>"newsletter:XXX"</code>` will return `<code>true</code>`. It is also possible to use the wildcard token at the domain level (or both): so you could grant a user the `<code>"view"</code>` action across all domains `<code>"*:view"</code>`.

\* `<p/>`

\* `<h3>Instance-level Access Control</h3>`

\* `<p/>`

\* Another common usage of the `<code>WildcardPermission</code>` is to model instance-level Access Control Lists.

\* In this scenario you use three tokens - the first is the `<em>domain</em>`, the second is the `<em>action</em>`, and the third is the `<em>instance</em>` you are acting on.

\* `<p/>`

\* So for example you could grant a user `<code>"newsletter:edit:12,13,18"</code>`. In this example, assume that the third token is the system's ID of the newsletter. That would allow the user to edit newsletters `<code>12</code>`, `<code>13</code>`, and `<code>18</code>`. This is an extremely powerful way to express permissions,

\* since you can now say things like `<code>"newsletter:*:13"</code>` (grant a user all actions for newsletter `<code>13</code>`), `<code>"newsletter:view,create,edit:*"</code>` (allow the user to `<code>view</code>`, `<code>create</code>`, or `<code>edit</code>` `<em>any</em>` newsletter), or `<code>"newsletter:*:*"</code>` (allow the user to perform `<em>any</em>` action on `<em>any</em>` newsletter).

\* `<p/>`

\* To perform checks against these instance-level permissions, the application should include the instance ID in the permission check like so:

\* `<p/>`

\* `<code>subject.isPermitted( "newsletter:edit:13" )</code>`

\* `<p/>`

\* There is no limit to the number of tokens that can be used, so it is up to your imagination in terms of ways that this could be used in your application. However, the Shiro team likes to standardize some common usages shown above to help people get started and provide consistency in the Shiro community.

\* `<p/>`

\* @since 0.9

\* `<p/>`

```
public class WildcardPermission implements Permission, Serializable {
```

```
    //TODO - JavaDoc methods
```

```
    /*-----
    |           C O N S T A N T S           |
    =====*/
    protected static final String WILDCARD_TOKEN = "*";
    protected static final String PART_DIVIDER_TOKEN = ":";
    protected static final String SUBPART_DIVIDER_TOKEN = ",";
    protected static final boolean DEFAULT_CASE_SENSITIVE = false;

    /*-----
```

```

| INSTANCE VARIABLES |
=====*/
private List<Set<String>> parts;

/*-----
| CONSTRUCTORS      |
=====*/
/**
 * Default no-arg constructor for subclasses only - end-user developers instantiating Permission instances must
 * provide a wildcard string at a minimum, since Permission instances are immutable once instantiated.
 * <p/>
 * Note that the WildcardPermission class is very robust and typically subclasses are not necessary unless you
 * wish to create type-safe Permission objects that would be used in your application, such as perhaps a
 * {@code UserPermission}, {@code SystemPermission}, {@code PrinterPermission}, etc. If you want such
type-safe
 * permission usage, consider subclassing the {@link DomainPermission DomainPermission} class for your
needs.
 */
protected WildcardPermission() {
}

public WildcardPermission(String wildcardString) {
    this(wildcardString, DEFAULT_CASE_SENSITIVE);
}

public WildcardPermission(String wildcardString, boolean caseSensitive) {
    setParts(wildcardString, caseSensitive);
}

protected void setParts(String wildcardString) {
    setParts(wildcardString, DEFAULT_CASE_SENSITIVE);
}

protected void setParts(String wildcardString, boolean caseSensitive) {
    if (wildcardString == null || wildcardString.trim().length() == 0) {
        throw new IllegalArgumentException("Wildcard string cannot be null or empty. Make sure permission
strings are properly formatted.");
    }

    wildcardString = wildcardString.trim();

    List<String> parts = CollectionUtils.asList(wildcardString.split(PART_DIVIDER_TOKEN));

    this.parts = new ArrayList<Set<String>>();
    for (String part : parts) {
        Set<String> subparts = CollectionUtils.asSet(part.split(SUBPART_DIVIDER_TOKEN));
        if (!caseSensitive) {
            subparts = lowercase(subparts);

```

```

    }
    if (subparts.isEmpty()) {
        throw new IllegalArgumentException("Wildcard string cannot contain parts with only dividers. Make sure
permission strings are properly formatted.");
    }
    this.parts.add(subparts);
}

if (this.parts.isEmpty()) {
    throw new IllegalArgumentException("Wildcard string cannot contain only dividers. Make sure permission
strings are properly formatted.");
}
}

private Set<String> lowercase(Set<String> subparts) {
    Set<String> lowerCasedSubparts = new LinkedHashSet<String>(subparts.size());
    for (String subpart : subparts) {
        lowerCasedSubparts.add(subpart.toLowerCase());
    }
    return lowerCasedSubparts;
}

/*-----
| ACCESSORS / MODIFIERS |
=====*/
protected List<Set<String>> getParts() {
    return this.parts;
}

/*-----
|     METHODS     |
=====*/

public boolean implies(Permission p) {
    // By default only supports comparisons with other WildcardPermissions
    if (!(p instanceof WildcardPermission)) {
        return false;
    }

    WildcardPermission wp = (WildcardPermission) p;

    List<Set<String>> otherParts = wp.getParts();

    int i = 0;
    for (Set<String> otherPart : otherParts) {
        // If this permission has less parts than the other permission, everything after the number of parts contained
        // in this permission is automatically implied, so return true
        if (getParts().size() - 1 < i) {

```

```

        return true;
    } else {
        Set<String> part = getParts().get(i);
        if (!part.contains(WILDCARD_TOKEN) && !part.containsAll(otherPart)) {
            return false;
        }
        i++;
    }
}

// If this permission has more parts than the other parts, only imply it if all of the other parts are wildcards
for (; i < getParts().size(); i++) {
    Set<String> part = getParts().get(i);
    if (!part.contains(WILDCARD_TOKEN)) {
        return false;
    }
}

return true;
}

public String toString() {
    StringBuilder buffer = new StringBuilder();
    for (Set<String> part : parts) {
        if (buffer.length() > 0) {
            buffer.append(":");
        }
        buffer.append(part);
    }
    return buffer.toString();
}

public boolean equals(Object o) {
    if (o instanceof WildcardPermission) {
        WildcardPermission wp = (WildcardPermission) o;
        return parts.equals(wp.parts);
    }
    return false;
}

public int hashCode() {
    return parts.hashCode();
}

}
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```

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* specific language governing permissions and limitations
* under the License.
*/
package org.apache.shiro.authz.permission;

/**
* Interface implemented by a component that wishes to use any application-configured <tt>PermissionResolver</tt>
that
* might already exist instead of potentially creating one itself.
*
* <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer } and
* { @link org.apache.shiro.realm.Realm Realm } implementations since they
* are the ones performing permission checks and need to know how to resolve Strings into
* { @link org.apache.shiro.authz.Permission Permission } instances.
*
* @since 0.9
*/
public interface PermissionResolverAware {

    /**
    * Sets the specified <tt>PermissionResolver</tt> on this instance.
    *
    * @param pr the <tt>PermissionResolver</tt> being set.
    */
    public void setPermissionResolver(PermissionResolver pr);
}

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*/
package org.apache.shiro.authz.permission;

/**
 * Interface implemented by a component that wishes to use any application-configured
 * <tt>RolePermissionResolver</tt> that
 * might already exist instead of potentially creating one itself.
 *
 * <p>This is mostly implemented by { @link org.apache.shiro.authz.Authorizer Authorizer } and
 * { @link org.apache.shiro.realm.Realm Realm } implementations since they
 * are the ones performing permission checks and need to know how to resolve Strings into
 * { @link org.apache.shiro.authz.Permission Permission } instances.
 *
 * @since 1.0
 */
public interface RolePermissionResolverAware {

    /**
     * Sets the specified <tt>RolePermissionResolver</tt> on this instance.
     *
     * @param rpr the <tt>RolePermissionResolver</tt> being set.
     */
    public void setRolePermissionResolver(RolePermissionResolver rpr);
}

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```

```

*/
package org.apache.shiro.authz.permission;

import org.apache.shiro.ShiroException;

/**
 * Thrown by { @link PermissionResolver#resolvePermission(String) } when the String being parsed is not
 * valid for that resolver.
 *
 * @since 0.9
 */
public class InvalidPermissionStringException extends ShiroException
{

    private String permissionString;

    /**
     * Constructs a new exception with the given message and permission string.
     *
     * @param message      the exception message.
     * @param permissionString the invalid permission string.
     */
    public InvalidPermissionStringException(String message, String permissionString) {
        super(message);
        this.permissionString = permissionString;
    }

    /**
     * Returns the permission string that was invalid and caused this exception to
     * be thrown.
     *
     * @return the permission string.
     */
    public String getPermissionString() {
        return this.permissionString;
    }

}

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\*/

```
package org.apache.shiro.authz;
```

/\*\*

\* A Permission represents the ability to perform an action or access a resource. A Permission is the most  
\* granular, or atomic, unit in a system's security policy and is the cornerstone upon which fine-grained security  
\* models are built.

\* <p/>

\* It is important to understand a Permission instance only represents functionality or access - it does not grant it.  
\* Granting access to an application functionality or a particular resource is done by the application's security  
\* configuration, typically by assigning Permissions to users, roles and/or groups.

\* <p/>

\* Most typical systems are what the Shiro team calls *role-based* in nature, where a role represents  
\* common behavior for certain user types. For example, a system might have an *Aministrator* role, a  
\* *User* or *Guest* roles, etc.

\* <p/>

\* But if you have a dynamic security model, where roles can be created and deleted at runtime, you can't hard-code  
\* role names in your code. In this environment, roles themselves aren't very useful. What matters is what  
\* *permissions* are assigned to these roles.

\* <p/>

\* Under this paradigm, permissions are immutable and reflect an application's raw functionality  
\* (opening files, accessing a web URL, creating users, etc). This is what allows a system's security policy  
\* to be dynamic: because Permissions represent raw functionality and only change when the application's  
\* source code changes, they are immutable at runtime - they represent 'what' the system can do. Roles, users, and  
\* groups are the 'who' of the application. Determining 'who' can do 'what' then becomes a simple exercise of  
\* associating Permissions to roles, users, and groups in some way.

\* <p/>

\* Most applications do this by associating a named role with permissions (i.e. a role 'has a' collection of  
\* Permissions) and then associate users with roles (i.e. a user 'has a' collection of roles) so that by transitive  
\* association, the user 'has' the permissions in their roles. There are numerous variations on this theme  
\* (permissions assigned directly to users, or assigned to groups, and users added to groups and these groups in turn  
\* have roles, etc, etc). When employing a permission-based security model instead of a role-based one, users, roles,  
\* and groups can all be created, configured and/or deleted at runtime. This enables an extremely powerful security  
\* model.

\* <p/>

\* A benefit to Shiro is that, although it assumes most systems are based on these types of static role or  
\* dynamic role w/ permission schemes, it does not require a system to model their security data this way - all  
\* Permission checks are relegated to { @link org.apache.shiro.realm.Realm } implementations, and only those  
\* implementations really determine how a user 'has' a permission or not. The Realm could use the semantics

described

\* here, or it could utilize some other mechanism entirely - it is always up to the application developer.

\* <p/>

\* Shiro provides a very powerful default implementation of this interface in the form of the

\* { @link org.apache.shiro.authz.permission.WildcardPermission WildcardPermission}. We highly recommend that you

\* investigate this class before trying to implement your own <code>Permission</code>s.

\*

\* @see org.apache.shiro.authz.permission.WildcardPermission WildcardPermission

\* @since 0.2

\*/

public interface Permission {

/\*\*

\* Returns { @code true} if this current instance <em>implies</em> all the functionality and/or resource access

\* described by the specified { @code Permission} argument, { @code false} otherwise.

\* <p/>

\* <p>That is, this current instance must be exactly equal to or a <em>superset</em> of the functionality

\* and/or resource access described by the given { @code Permission} argument. Yet another way of saying this

\* would be:

\* <p/>

\* <p>If "permission1 implies permission2", i.e. <code>permission1.implies(permission2)</code> ,

\* then any Subject granted { @code permission1} would have ability greater than or equal to that defined by

\* { @code permission2}.

\*

\* @param p the permission to check for behavior/functionality comparison.

\* @return { @code true} if this current instance <em>implies</em> all the functionality and/or resource access

\* described by the specified { @code Permission} argument, { @code false} otherwise.

\*/

boolean implies(Permission p);

}

/\*\*

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```

*/
/**
 * Support and default implementations for Shiro's { @link org.apache.shiro.authz.Permission Permission }
 * interface.
 * <p/>
 * Also note the { @link org.apache.shiro.authz.permission.PermissionResolver PermissionResolver } interface, as
 * it plays an important part in many of Shiro's { @link org.apache.shiro.realm.Realm Realm } implementations
 * and AOP support.
 */
package org.apache.shiro.authz.permission;
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 */
package org.apache.shiro.authz.permission;

import static org.junit.Assert.assertTrue;
import org.junit.Test;

/**
 */
public class AllPermissionTest {

    @Test
    public void testNullArgument() {
        assertTrue(new AllPermission().implies(null));
    }

    @Test
    public void testNonNullArgument() {
        assertTrue(new AllPermission().implies(new AllPermission()));
    }
}

```

# 1.126 commons-pool 1.3

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## 1.127 lz4-java 1.2.0

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\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/runtime/BatchRequestMessage.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/conf/EqualityBehaviorOption.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/runtime/rule/ActivationGroup.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/task/model/Comment.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/runtime/rule/ConsequenceExceptionHandler.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/runtime/rule/PropagationContext.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/runtime/rule/QueryResults.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/definition/process/Connection.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/runtime/rule/AgendaFilter.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/runtime/process/ProcessRuntime.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/definition/rule/Rule.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/runtime/EnvironmentName.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/time/Calendar.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/rule/DefaultRuleRuntimeEventListener.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/task/model/OrganizationalEntity.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/KieBaseConfiguration.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/task/model/I18NText.java  
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\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/Service.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/osgi/Activator.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/conf/MultiValueKieBaseOption.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-

jar/org/kie/api/runtime/rule/StatefulRuleSession.java

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jar/org/kie/api/runtime/CommandExecutor.java

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 \* limitations under the License.  
 \*/  
 /\*\*  
 \* KieSession is the most common way to interact with the engine. A KieSession  
 \* allows the application to establish an iterative conversation with the engine, where the state of the  
 \* session is kept across invocations. The reasoning process may be triggered multiple times for the  
 \* same set of data. After the application finishes using the session, though, it **must** call the  
 \* `dispose()` method in order to free the resources and used memory.  
 \*  
 \* 

<p>  
 \* Simple example showing a KieSession executing rules for a given collection of java objects.  
 \* </p>  
 \* 

```
<pre>  

  * KieServices kieServices = KieServices.Factory.get();  

  * KieContainer kContainer = kieServices.getKieClasspathContainer();  

  * KieSession kSession = kContainer.newKieSession();  

  *  

  * for( Object fact : facts ) {  

  * kSession.insert( fact );  

  * }  

  * kSession.fireAllRules();  

  * kSession.dispose();  

  * </pre>  

  *  

  * 

<p>  

  * Simple example showing a stateful session executing processes.  

  * </p>  

  * 

```
<pre>  

  * KieSession kSession = kbase.newKieSession();  

  * kSession.startProcess("com.sample.processid");  

  * kSession.signalEvent("SomeEvent", null);  

  * kSession.startProcess("com.sample.processid");  

  * kSession.dispose();  

  * </pre>  

  *  

  * 

<p>


```


```

\* KieSession support globals. Globals are used to pass information into the engine  
 \* (like data or service callbacks that can be used in your rules and processes), but they should not  
 \* be used to reason over. If you need to reason over your data, make sure you insert  
 \* it as a fact, not a global.</p>
 \* <p>Globals are shared among ALL your rules and processes, so be especially careful of (and avoid  
 \* as much as possible) mutable globals. Also, it is a good practice to set your globals before  
 \* inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion  
 \* time, and so, if you are using a global to constraint a fact pattern, and the global is not set,  
 \* you may receive a <code>NullPointerException</code>. </p>
 \* <p>Globals can be resolved in two ways. The KieSession supports getGlobals() which  
 \* returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object)  
 \* will set the global on an internal Collection. Identifiers in this internal  
 \* Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in  
 \* the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.  
 \* </p>
 \* <p>Code snippet for setting a global:</p>
 \* <pre>
 \* KieSession ksession = kbase.newKieSession();
 \* ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB
 \* interactions in the rules.
 \* for( Object fact : facts ) {
 \* ksession.insert( fact );
 \* }
 \* ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
 \* ksession.dispose();
 \* </pre>
 \* <p>
 \* Like StatelessKieSession this also implements CommandExecutor which can be used to script a KieSession. See  
 \* CommandExecutor  
 \* for more details.
 \* </p>
 \* @see Globals
 \*/

Found in path(s):

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\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/kiabase/AfterRuleAddedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/kiabase/AfterFunctionRemovedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/kiabase/BeforeProcessAddedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/rule/RuleFlowGroupActivatedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/rule/AfterMatchFiredEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/kiabase/BeforeProcessRemovedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/rule/ObjectDeletedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/kiabase/KieBaseEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/rule/AgendaGroupPushedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/process/ProcessStartedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/process/ProcessCompletedEvent.java  
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\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/event/kiabase/AfterProcessRemovedEvent.java  
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jar/org/kie/api/event/kiabase/AfterKieBaseUnlockedEvent.java  
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jar/org/kie/api/event/kiabase/AfterKiePackageRemovedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-  
jar/org/kie/api/event/rule/AgendaEventListener.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-  
jar/org/kie/api/event/kiabase/BeforeRuleAddedEvent.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-  
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jar/org/kie/api/event/rule/MatchEvent.java  
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jar/org/kie/api/event/rule/ObjectUpdatedEvent.java  
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jar/org/kie/api/event/rule/MatchCreatedEvent.java  
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\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-  
jar/org/kie/api/event/process/ProcessNodeTriggeredEvent.java

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jar/org/kie/api/task/TaskLifeCycleEventListener.java
* /opt/cola/permits/1097547461_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/cdi/KSession.java
* /opt/cola/permits/1097547461_1602103945.84/0/kie-api-6-5-0-final-sources-1-
jar/org/kie/api/builder/model/WorkItemHandlerModel.java
* /opt/cola/permits/1097547461_1602103945.84/0/kie-api-6-5-0-final-sources-1-
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* /opt/cola/permits/1097547461_1602103945.84/0/kie-api-6-5-0-final-sources-1-
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* /opt/cola/permits/1097547461_1602103945.84/0/kie-api-6-5-0-final-sources-1-
jar/org/kie/api/definition/type/Duration.java
* /opt/cola/permits/1097547461_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/cdi/KContainer.java
* /opt/cola/permits/1097547461_1602103945.84/0/kie-api-6-5-0-final-sources-1-
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* /opt/cola/permits/1097547461_1602103945.84/0/kie-api-6-5-0-final-sources-1-
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* /opt/cola/permits/1097547461_1602103945.84/0/kie-api-6-5-0-final-sources-1-
jar/org/kie/api/runtime/manager/audit/NodeInstanceLog.java

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\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/KieServices.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/runtime/manager/RuntimeManagerFactory.java  
\* /opt/cola/permits/1097547461\_1602103945.84/0/kie-api-6-5-0-final-sources-1-jar/org/kie/api/executor/Executor.java  
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\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/Package.java  
\* /opt/cola/permits/1095510691\_1601467124.77/0/drools-templates-6-5-0-final-sources-1-jar/org/drools/template/model/DeclaredType.java

# 1.134 sesame-model 2.7.16

## 1.135 commons-discovery 0.4\_1

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\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/AmqpConnectException.java

\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/AmqpTemplate.java

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\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/FederatedExchange.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/AbstractDeclarable.java

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\* Special exception for listener implementations that want to signal that the current batch of messages should be acknowledged immediately (i.e. as soon as possible) without rollback, and without consuming any more messages.

\*

\* @author Dave Syer

\*

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\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/Message.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/MessageProperties.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/Queue.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/remoting/service/AmqpInvokerServiceExporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/BindingBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/remoting/client/AmqpClientInterceptor.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/support/converter/AbstractMessageConverter.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/MessageListener.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/MessageDeliveryMode.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/UniquelyNamedQueue.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/AmqpIllegalStateException.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/TopicExchange.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/MessagePostProcessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/AmqpUnsupportedEncodingException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/AmqpException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/support/converter/MessageConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/core/AnonymousQueue.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090154\_1594483413.14/0/spring-amqp-1-2-0-release-sources-jar/org/springframework/amqp/UncategorizedAmqpException.java

## 1.137 jnr-constants 0.9.0

## 1.138 hk2 2.5.0-b05

## 1.138.1 Available under license :

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# 1.139 config-types 2.5.0-b05

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# 1.140 antlr 3.5.2

## 1.140.1 Available under license :

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\*/

```

group Perl5;

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass, literals) ::=
<<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

<@imports>
<if(TREE_PARSER)>
<endif>
<if(backtracking)>
<endif>
<@end>

<docComment>
<recognizer>
>>

lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
       filterMode, superClass="ANTLR::Runtime::Lexer") ::= <<
package <name>;

use Carp;
use English qw( -no_match_vars );
use Readonly;
use Switch;

use ANTLR::Runtime::BaseRecognizer;
use ANTLR::Runtime::DFA;
use ANTLR::Runtime::NoViableAltException;

use Moose;

extends 'ANTLR::Runtime::Lexer';

Readonly my $HIDDEN => ANTLR::Runtime::BaseRecognizer->HIDDEN;
sub HIDDEN { $HIDDEN }

use constant {

```

```

    <tokens:{ <it.name> => <it.type>, }; separator="\n">
};
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

sub BUILD {
    my ($self, $arg_ref) = @_ ;

    $self->init_dfas();
}

sub get_grammar_file_name {
    return "<fileName>";
}

<if(filterMode)>
<filteringNextToken()>
<endif>
<rules; separator="\n\n">

<synpreds:{ p | <lexerSynpred(p)>}>

<cyclicDFAs:{ dfa | has 'dfa<dfa.decisionNumber>'; }; separator="\n">

sub init_dfas {
    my ($self) = @_ ;

    <cyclicDFAs:{ dfa |
    $self->dfa<dfa.decisionNumber>(<name::DFA<dfa.decisionNumber>->new({ recognizer => $self }));
    }; separator="\n">

    return;
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

no Moose;
__PACKAGE__->meta->make_immutable();
1;

>>

perlTypeInitMap ::= [
    "$":"undef",
    "@":"()",
    "%":"()",
    default:"undef"
]

```

```

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            return Token.EOF_TOKEN;
        }
        token = null;
channel = Token.DEFAULT_CHANNEL;
        tokenStartCharIndex = input.index();
        tokenStartCharPositionInLine = input.getCharPositionInLine();
        tokenStartLine = input.getLine();
text = null;
        try {
            int m = input.mark();
            backtracking=1; <!-- means we won't throw slow exception !>
            failed=false;
            mTokens();
            backtracking=0;
            <!-- mTokens backtracks with synpred at backtracking==2
            and we set the synpredgate to allow actions at level 1. !>
            if ( failed ) {
                input.rewind(m);
                input.consume(); <!-- advance one char and try again !>
            }
            else {
                emit();
                return token;
            }
        }
        catch (RecognitionException re) {
            // shouldn't happen in backtracking mode, but...
            reportError(re);
            recover(re);
        }
    }
}

public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
{

```

```

if ( backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
if ( backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
return false;
}
>>

actionGate() ::= "$self->state->backtracking==0"

filteringActionGate() ::= "backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="Object", labelType, members) ::= <<
package <name>;

use English qw( -no_match_vars );
use Readonly;
use Switch;
use Carp;
use ANTLR::Runtime::BitSet;

use Moose;

extends '<@superClassName><superClass><@end>';

Readonly my $token_names => [
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
];

use constant {
<tokens:{ <it.name> => <it.type>, }; separator="\n">
};

<bitsets:bitset(name={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>

<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>

sub BUILD {
    my ($self, $arg_ref) = @_;

<if(backtracking)>

```

```

    $self->state->rule_memo({});<\n>
<endif>
}
<@end>

sub get_token_names {
    return $token_names;
}

sub get_grammar_file_name {
    return "<fileName>";
}

<members>

<rules; separator="\n\n">

<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = __PACKAGE__::DFA<dfa.decisionNumber>->new($self);};
separator="\n">
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

no Moose;
__PACKAGE__->meta->make_immutable();
1;
__END__
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType,
superClass="ANTLR::Runtime::Parser", labelType="ANTLR::Runtime::Token",
members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ANTLR::Runtime::TokenStream", ...)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.
*/
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="Object", superClass="ANTLR::Runtime::TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="TreeNodeStream", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
* rules created for syntactic predicates. As they never have return values
* nor parameters etc..., just give simplest possible method. Don't do
* any of the normal memoization stuff in here either; it's a waste.

```

```

* As predicates cannot be inlined into the invoking rule, they need to
* be in a rule by themselves.
*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
# $ANTLR start <ruleName>
sub <ruleName>_fragment {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>

<if(trace)>
  $self->traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
  eval {
    <block>
  };
  $self->traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
  if ($EVAL_ERROR) {
    croak $EVAL_ERROR;
  }
<else>
  <block>
<endif>
}
# $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final boolean <name>() {
  backtracking++;
  <@start()>
  int start = input.mark();
  try {
    <name>_fragment(); // can never throw exception
  } catch (RecognitionException re) {
    System.err.println("impossible: "+re);
  }
  boolean success = !failed;
  input.rewind(start);
  <@stop()>
  backtracking--;
  failed=false;
  return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

```

```

ruleMemoization(name) ::= <<
<if(memoize)>
if ( backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index> ) ) { return <ruleReturnValue()>; }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>
if ($self->state->failed) {
    return <ruleReturnValue()>;
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (backtracking>0) { failed=true; return <ruleReturnValue()>;}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

# $ANTLR start <ruleName>
# <fileName>:<description>
sub <ruleName>() {
    my ($self, <ruleDescriptor.parameterScope:parameterScope(scope=it)>) = @_ ;
    <if(trace)>$self->traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    eval {
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()>
        <(ruleDescriptor.actions.after):execAction()>
    };
    <if(exceptions)>
        <exceptions:{e|<catch(decl=e.decl,action=e.action)><n>}>
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>

```

```

    <actions.(actionScope).rulecatch>
<else>
    my $exception = $EVAL_ERROR;
    if (ref $exception && $exception->isa('ANTLR::Runtime::RecognitionException')) {
        $self->report_error($exception);
        $self->recover($self->input, $exception);
        $exception = undef;
    }<\n>
<endif>
<endif>
<endif>
    <if(trace)>$self->traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
    if ($exception) {
        croak $exception;
        # $exception->rethrow();
    }
    <@postamble()>
    return <ruleReturnValue()>;
}
# $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
my $retval = <returnType()>->new();
$retval->set_start($self->input->LT(1));<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
my $<a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
my $<ruleDescriptor.name>_start_index = $self->input->index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{ <it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{ <it.name>_stack.push(new <it.name>_scope());}; separator="\n">

```

>>

```
ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{<it.name>_stack.pop();}; separator="\n">
>>
```

```
ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {my $<it.label.text> = undef;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: {||RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>
```

```
lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels: {my $<it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {List list_<it.label.text>=null;}; separator="\n"
>
>>
```

```
ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
$<ruleDescriptor.singleValueReturnName>
<else>
$retval
<endif>
<endif>
<endif>
>>
```

```
ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
$retval->set_stop($self->input->LT(-1));<\n>
```

```

<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start <ruleName>
sub m_<ruleName> {
# <ruleDescriptor.parameterScope:parameterScope(scope=it)>
my ($self) = @_ ;
<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleDeclarations()>
eval {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
my $_type = <ruleName>;
my $_channel = $self->DEFAULT_TOKEN_CHANNEL;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block>
<ruleCleanUp()>
$self->state->type($_type);
$self->state->channel($_channel);
<(ruleDescriptor.actions.after):execAction()>
<endif>
};
<if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
<memoize()>

if ($EVAL_ERROR) {
croak $EVAL_ERROR;
}
}
}

```

```

# $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
sub m_tokens {
  my ($self) = @_.;
  <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch ($alt<decisionNumber>) {
  <alts:altSwitchCase()>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $alt<decisionNumber> = <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch ($alt<decisionNumber>) {
  <alts:altSwitchCase()>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>

```

```

<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
my $cnt<decisionNumber> = 0;
<decls>
<@preloop()>
LOOP<decisionNumber>:
while (1) {
  my $alt<decisionNumber> = <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch ($alt<decisionNumber>) {
    <alts:altSwitchCase()>
  }
  else {
    if ( $cnt<decisionNumber> >= 1 ) { last LOOP<decisionNumber> }
    <ruleBacktrackFailure()>
    my $see =
      ANTLR::Runtime::EarlyExitException->new(<decisionNumber>, $self->input);
    <@earlyExitException()>
    croak $see;
  }
}
++$cnt<decisionNumber>;
}
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
# <fileName>:<description>
<decls>

```

```

<@preloop()>
LOOP<decisionNumber>:
while (1) {
    my $alt<decisionNumber> = <maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch ($alt<decisionNumber>) {
        <alts:altSwitchCase()>
        else { last LOOP<decisionNumber> }
    }
}
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
case <i> {
    <@prealt()>
    <it>
}<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
# <fileName>:<description>
{
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.

```

```

*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch(>
<it.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>$<label> =<endif>$self->match($self->input, <token>,
$FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...>
<listLabel(elem=label,...>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList();
list_<label>.add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n>
<endif>
$self->match(<char>); <checkRuleBacktrackFailure(>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = $self->input->LA(1);<\n>
<endif>
$self->match_range(<a>,<b>); <checkRuleBacktrackFailure(>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>

```

```

<if(LEXER)>
<label>= $self->input->LA(1);<\n>
<else>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
<endif>
if ( <s> ) {
    $self->input->consume();
    <postmatchCode>
<if(!LEXER)>
    $self->state->error_recovery(0);
<endif>
    <if(backtracking)>failed=false;<endif>
}
else {
    <ruleBacktrackFailure()>
    my $mse =
        ANTLR::Runtime::MismatchedSetException->new(undef, $self->input);
    <@mismatchedSetException()>
<if(LEXER)>
    $self->recover($mse);
    $mse->throw();
<else>
    $mse->throw();
    <! use following code to make it recover inline; remove throw mse;
    $self->recoverFromMismatchedSet($self->input, $mse, $FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}<\n>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */

```

```

lexerStringRef(string,label,elementIndex) ::= <<

```

```

<if(label)>

```

```

int <label>Start = getCharIndex();

```

```

$self->match(<string>); <checkRuleBacktrackFailure()>

```

```

<labelType> <label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE,
Token.DEFAULT_CHANNEL, <label>Start, getCharIndex()-1);

```

```

<else>

```

```

$self->match(<string>); <checkRuleBacktrackFailure()><\n>

```

```

<endif>

```

>>

```
wildcard(label,elementIndex) ::= <<  
<if(label)>  
<label>=(<labelType>)input.LT(1);<\n>  
<endif>  
matchAny(input); <checkRuleBacktrackFailure()>  
>>
```

```
wildcardAndListLabel(label,elementIndex) ::= <<  
<wildcard(...)>  
<listLabel(elem=label,...)>  
>>
```

```
/** Match . wildcard in lexer */  
wildcardChar(label, elementIndex) ::= <<  
<if(label)>  
<label> = $self->input->LA(1);<\n>  
<endif>  
matchAny(); <checkRuleBacktrackFailure()>  
>>
```

```
wildcardCharListLabel(label, elementIndex) ::= <<  
<wildcardChar(...)>  
<listLabel(elem=label,...)>  
>>
```

```
/** Match a rule reference by invoking it possibly with arguments  
 * and a return value or values.  
 */  
ruleRef(rule,label,elementIndex,args,scope) ::= <<  
$self->push_follow($FOLLOW_<rule.name>_in_<ruleName><elementIndex>);  
<if(label)>  
$<label> = $self-><rule.name>(<args; separator=", ">);<\n>  
<else>  
$self-><rule.name>(<args; separator=", ">);<\n>  
<endif>  
$self->state->_fsp($self->state->_fsp - 1);  
<checkRuleBacktrackFailure()>  
>>
```

```
/** ids+=r */  
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<  
<ruleRef(...)>  
<listLabel(elem=label,...)>  
>>
```

```
/** A lexer rule reference.
```

```

*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
$self->m_<rule><(args; separator=" "> <checkRuleBacktrackFailure()>
<label> = new CommonToken(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
$self->m_<rule.name><(args; separator=" "> <checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new CommonToken(input, EOF, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>

```

```

match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> ) ) {
    <ruleBacktrackFailure()>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls">
else {
<if(eotPredictsAlt)>
    $alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    my $nvae =
        ANTLR::Runtime::NoViableAltException->new({
            grammar_decision_description => "<description>",
            decision_number => <decisionNumber>,
            state_number => <stateNumber>,
            input => $self->input,
        });<\n>
    <@noViableAltException()>
    croak $nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls">
>>

/** A DFA state that is actually the loopback decision of a closure

```

```

* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
my $LA<decisionNumber>_<stateNumber> = $self->input->LA(<k>);<\n>
<edges; separator="\nls"><\n>
<if(eotPredictsAlt)>
<if(!edges)>
$alt<decisionNumber> = <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
    $alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "$alt<decisionNumber> = <alt>";

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr>) <if(predicates)>&& (<predicates>)<endif> ) {
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k>) ) {
    <edges; separator="\n">
    else {
    <if(eotPredictsAlt)>
        $alt<decisionNumber> = <eotPredictsAlt>;
    <else>
        <ruleBacktrackFailure()>
        my $nvae =
            ANTLR::Runtime::NoViableAltException->new({
                grammar_decision_description => "<description>",

```

```

        decision_number => <decisionNumber>,
        state_number => <stateNumber>,
        input => $self->input,
    });<\n>
    <@noViableAltException()>
    croak $nvae;<\n>
<endif>
}
}<\n>
>>

```

```

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k> ) ) {
    <edges; separator="\n">
}<\n>
>>

```

```

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( $self->input->LA(<k> ) ) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
else { $alt<decisionNumber> = <eotPredictsAlt> }<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
case [<labels:{ <it> }; separator=", ">] { <targetState> }
>>

```

```

// C y c l i c D F A

```

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
$alt<decisionNumber> = $self->dfa<decisionNumber>->predict($self->input);
>>

```

```

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */

```

```

cyclicDFA(dfa) ::= <<
Readonly my $DFA<dfa.decisionNumber>_eot => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedEOT; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_eof => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedEOF; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_min => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedMin; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_max => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedMax; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_accept => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedAccept; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_special => ANTLR::Runtime::DFA->unpack_rle([
<dfa.javaCompressedSpecial; separator=", "> ]);
Readonly my $DFA<dfa.decisionNumber>_transition => [
<dfa.javaCompressedTransition:{s|ANTLR::Runtime::DFA->unpack_rle([ <s; separator=", "> ])}; separator=", "> ];

{
package <name>::DFA<dfa.decisionNumber>;
use ANTLR::Runtime::Class;

use strict;
use warnings;

extends 'ANTLR::Runtime::DFA';

sub BUILD {
    my $self = shift;
    my $param_ref = __PACKAGE__->unpack_params(@_, {
        spec => [
            {
                name => 'recognizer',
                isa => 'ANTLR::Runtime::BaseRecognizer'
            },
        ]
    });

    $self->recognizer($param_ref->{recognizer});
    $self->decision_number(<dfa.decisionNumber>);
    $self->eot($DFA<dfa.decisionNumber>_eot);
    $self->eof($DFA<dfa.decisionNumber>_eof);
    $self->min($DFA<dfa.decisionNumber>_min);
    $self->max($DFA<dfa.decisionNumber>_max);
    $self->accept($DFA<dfa.decisionNumber>_accept);
    $self->special($DFA<dfa.decisionNumber>_special);
    $self->transition($DFA<dfa.decisionNumber>_transition);
}

sub get_description {

```

```

    return "<dfa.description>";
}

<@errorMethod()>

<if(dfa.specialStateSTs)>
sub special_state_transition {
    my ($self, $param_ref) = unpack_params(@_, {
        spec => [
            {
                name => 's',
                type => SCALAR,
            },
            {
                name => 'input',
                isa => 'ANTLR::Runtime::IntStream',
            }
        ]
    });
    my $s = $param_ref->{s};
    my $input = $param_ref->{input};

    switch ($s) {
        <dfa.specialStateSTs:{state |
        case <i0> \{ <! compressed special state numbers 0..n-1 !>
            <state>}; separator="\n">
        }
    }

<if(backtracking)>
    if ($self->state->backtracking > 0) {
        $self->state->failed = 1;
        return -1;
    }<\n>
<endif>

    my $nvae =
        ANTLR::Runtime::NoViableAltException->new({
            grammar_decision_description => $self->get_description(),
            decision_number => <dfa.decisionNumber>,
            state_number => $s,
            input => $input,
        });<\n>
        $self->error($nvae);
        $nvae->throw();
    }<\n>
<endif>
}<\n>

```

```
>>
```

```
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
my $input = $self->input;
my $LA<decisionNumber>_<stateNumber> = $input->LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
my $index<decisionNumber>_<stateNumber> = $input->index();
$input->rewind();<\n>
<endif>
s = -1;
<edges; separator="\nls">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>
```

```
/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) { s = <targetStateNumber>; }<\n>
>>
```

```
/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>
```

```
// D F A E X P R E S S I O N S
```

```
andPredicates(left,right) ::= "<left> && <right>"
```

```
orPredicates(operands) ::= "<operands; separator=\\|\\>"
```

```
notPredicate(pred) ::= "!(<evalPredicate(...)>)"
```

```
evalPredicate(pred,description) ::= "<pred>"
```

```
evalSynPredicate(pred,description) ::= "<pred>()"
```

```

lookaheadTest(atom,k,atomAsInt) ::= "$LA<decisionNumber>_<stateNumber> eq <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "$self->input->LA(<k>) eq <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
($LA<decisionNumber>_<stateNumber> ge <lower> && $LA<decisionNumber>_<stateNumber> le <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "($self->input->LA(<k>) ge
<lower> && $self->input->LA(<k>) le <upper>)"

setTest(ranges) ::= "<ranges; separator=\\\" || \\\">"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
  <scope.attributes:{<it.decl>;}; separator= "\\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected static class <scope.name>_scope {
  <scope.attributes:{<it.decl>;}; separator= "\\n">
}
protected Stack <scope.name>_stack = new Stack();<\n>
<endif>
>>

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.name>_return
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

```

```

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

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

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
my $<label.label.text> = <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{
package <returnType()>;
use ANTLR::Runtime::Class;

extends 'ANTLR::Runtime::<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope';

<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
}
<endif>
>>

```

```

parameterScope(scope) ::= <<
<scope.attributes:{$<it.name>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "$<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "$<attr.name>=<expr>";

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
((<scope>_scope)<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1)).<attr.name>=<expr>;
<else>
<if(index)>
((<scope>_scope)<scope>_stack.elementAt(<index>)).<attr.name>=<expr>;
<else>
((<scope>_scope)<scope>_stack.peek()).<attr.name>=<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
$<scope>.<attr.name>
<else>
$<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<

```

```

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
$<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
$<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "$<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "$<scope>->get_text()"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "((<labelType>)<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "((<labelType>)<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
input.getTreeAdaptor().getTokenStopIndex(<scope>.start))
<else>
substr($self->input, $<scope>->start, $<scope>->stop)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */

```

```

lexerRuleLabel(label) ::= "$<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>.getType()"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>.getLine()"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>.getCharPositionInLine()"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>.getChannel()"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>.getTokenIndex()"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>.getText()"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType>)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType>)retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType>)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(retval.start),
input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "$_type"
lexerRulePropertyRef_line(scope,attr) ::= "tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "$_channel"
lexerRulePropertyRef_start(scope,attr) ::= "tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_self(scope,attr) ::= "$self"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>";

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> ) {
<action>
}
<else>

```

```

if ( backtracking==0 ) {
  <action>
}
<endif>
<else>
<action>
<endif>
>>

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
Readonly my $<name> => ANTLR::Runtime::BitSet->new({ words64 => [ <words64:{'<it>'};separator=", "> ]
});<\n>
>>

codeFileExtension() ::= ".pm"

true() ::= "1"
false() ::= "0"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Perl5/Perl5.stg
No license file was found, but licenses were detected in source scan.

/*
[The "BSD license"]
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```

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\*/

/\*

\* This code generating template and the associated Cpp runtime was produced by:

\* Gokulakannan Somasundaram ( heavy lifting from C Run-time by Jim Idle )

\*/

cTypeInitMap ::= [

```
"int"   : "0",      // Integers  start out being 0
"long"  : "0",      // Longs    start out being 0
"float" : "0.0",    // Floats  start out being 0
"double": "0.0",    // Doubles start out being 0
"bool"  : "false", // Booleans start out being Antlr C for false
"byte"  : "0",      // Bytes   start out being 0
"short" : "0",      // Shorts  start out being 0
"char"  : "0"       // Chars   start out being 0
```

]

leadIn(type) ::=

<<

/\*\* \file

\* This <type> file was generated by \$ANTLR version <ANTLRVersion>

\*

\* - From the grammar source file : <fileName>

\* - On : <generatedTimestamp>

<if(LEXER)>

\* - for the lexer : <name>Lexer

<endif>

<if(PARSER)>

\* - for the parser : <name>Parser

<endif>

<if(TREE\_PARSER)>

\* - for the tree parser : <name>TreeParser

<endif>

\*

\* Editing it, at least manually, is not wise.

\*

\* C++ language generator and runtime by Gokulakannan Somasundaram ( heavy lifting from C Run-time by Jim Idle )

\*

\*

>>

/\*\* The overall file structure of a recognizer; stores methods for rules

\* and cyclic DFAs plus support code.

```

*/
outputFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::=

<<
<leadIn("C++ source")>
*/
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```

```
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```

```
<if(actions.(actionScope).header)>
```

```
/* =====
* This is what the grammar programmer asked us to put at the top of every file.
*/
```

```
<actions.(actionScope).header>
```

```
/* End of Header action.
```

```
/* =====
*/
```

```
<endif>
```

```
/* -----
```

```
* Include the ANTLR3 generated header file.
```

```
*/
```

```
#include "<name>.hpp"
```

```
<if(recognizer.grammar.delegators)>
```

```
// Include delegator definition header files
```

```
//
```

```
<recognizer.grammar.delegators: { g#include "<g.recognizerName>.hpp" }; separator="\n">
```

```
<endif>
```

```
<actions.(actionScope).postinclude>
```

```
/* ----- */
```

```
<docComment>
```

```
<if(literals)>
```

```
<beginNamespace(actions)>
```

```
/** String literals used by <name> that we must do things like MATCHS() with.
```

```
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
```

```
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
```

```
* we perform this little trick of defining the literals as arrays of UINT32
```

```
* and passing in the address of these.
```

```
*/
```

```
<literals:{it | static ANTLR_UCHAR lit_<i>[] = <i>;}; separator="\n">
```

```
<endNamespace(actions)>
```

```
<endif>
```

```
/* ===== */
```

```
/* =====
```

```
* Start of recognizer
```

```
*/
```

```
<recognizer>
```

```
/* End of code
```

```
* =====
```

```
*/
```

```
>>
```

```
headerFileExtension() ::= ".hpp"
```

```
beginNamespace(actions) ::= <<
```

```
<if(actions.(actionScope).namespace)>
```

```
namespace <actions.(actionScope).namespace> {
```

```
<endif>
```

```
>>
```

```
endNamespace(actions) ::= <<
```

```
<if(actions.(actionScope).namespace)>
```

```
}
```

```
<endif>
```

```
>>
```

```
headerFile( LEXER,
```

```
    PARSER,
```

```
    TREE_PARSER,
```

```
    actionScope,
```

```
    actions,
```

```
    docComment,
```

```
    recognizer,
```

```
    name,
```

```
    tokens,
```

```
    tokenNames,
```

```
    rules,
```

```
    cyclicDFAs,
```

```
    bitsets,
```

```
    buildTemplate,
```

```

    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::=
<<
<leadIn("C++ header")>
<if(PARSER)>
* The parser <mainName()>
<endif>
<if(LEXER)>
* The lexer <mainName()>
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()>
<endif>
has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
*
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
*/
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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.

#ifndef _<name>_H
#define _<name>_H
<actions.(actionScope).preincludes>
/* =====
* Standard antlr3 C++ runtime definitions
*/
#include <antlr3.hpp>

/* End of standard antlr 3 runtime definitions
* =====
*/

<actions.(actionScope).includes>

<if(recognizer.grammar.delegates)>
// Include delegate definition header files
//
<recognizer.grammar.delegates: {g|#include "<g.recognizerName>.hpp"}; separator="\n">

<endif>

<actions.(actionScope).header>

#ifdef WIN32
// Disable: Unreferenced parameter, - Rules with parameters that are not used
// constant conditional, - ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable - tree rewrite variables declared but not needed
// Unreferenced local variable - lexer rule declares but does not always use _type
// potentially uninitialized variable used - retval always returned from a rule
// unreferenced local function has been removed - susually getTokenNames or freeScope, they can go without
warnigns

```

```

//
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif
<if(backtracking)>

/* =====
* BACKTRACKING IS ENABLED
* =====
*/
<endif>

<beginNamespace(actions)>

<if(recognizer.grammar.delegators)>
// Include delegator definition classes
//
<recognizer.grammar.delegators: {g|class <g.recognizerName>; }; separator="\n">
<endif>

<actions.(actionScope).traits>
typedef <name>Traits <name>ImplTraits;

<rules:{r | <if(r.ruleDescriptor.isSynPred)> struct <r.ruleDescriptor.name> {}; <endif>; separator="\n">
<rules:{r | <headerReturnScope(ruleDescriptor=r.ruleDescriptor,...)>}>

class <name>Tokens
{
public:
/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
* \{
*
* Antlr will define EOF, but we can't use that as it is too common in
* in C header files and that would be confusing. There is no way to filter this out at the moment
* so we just undef it here for now. That isn't the value we get back from C recognizers
* anyway. We are looking for ANTLR_TOKEN_EOF.
*/
enum Tokens
{

```

```

EOF_TOKEN = <name>ImplTraits::CommonTokenType::TOKEN_EOF
<tokens:{it | , <it.name> = <it.type> }; separator="\n">
};

};

/** Context tracking structure for <mainName()>
*/
class <name> : public <componentBaseType()>, public <name>Tokens
{
public:
typedef <name>ImplTraits ImplTraits;
typedef <name> ComponentType;
typedef ComponentType::StreamType StreamType;
typedef <componentBaseType()> BaseType;
typedef ImplTraits::RecognizerSharedStateType\<StreamType> RecognizerSharedStateType;
typedef StreamType InputType;
<if(recognizer.filterMode)>
static const bool IsFiltered = true;
<else>
static const bool IsFiltered = false;
<endif>

<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(it)><endif>}>
<rules:{r |<ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)>}>

private:
<if(recognizer.grammar.delegates)>
<recognizer.grammar.delegates:
    {g|<g.recognizerName>* m_<g.delegateName()>;}; separator="\n">
<endif>
<if(recognizer.grammar.delegators)>
<recognizer.grammar.delegators:
    {g|<g.recognizerName>* m_<g.delegateName()>;}; separator="\n">
<endif>
<scopes:{it | <if(it.isDynamicGlobalScope)>
    <globalAttributeScopeDef(it)>
<endif>}; separator="\n\n">
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
    <ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)>
<endif>}>
    <@members>
    <@end>

public:
    <name>(InputType* instream<recognizer.grammar.delegators:{g|, <g.recognizerName>*
<g.delegateName()>}>>);
    <name>(InputType* instream, RecognizerSharedStateType* state<recognizer.grammar.delegators:{g|,

```

```

<g.recognizerName>* <g.delegateName()>}>};

void init(InputType* instream <recognizer.grammar.delegators:{g|, <g.recognizerName>* <g.delegateName()>}>
);

<if(LEXER)>
<if(recognizer.filterMode)>
void memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart);
bool alreadyParsedRule(ANTLR_MARKER ruleIndex);
<endif>
<rules:{r | <if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)>
m<r.ruleDescriptor.name>( <r.ruleDescriptor.parameterScope:parameterScope()>);<endif> }; separator="\n">
<rules:{r | <if(r.ruleDescriptor.isSynPred)> <headerReturnType(ruleDescriptor=r.ruleDescriptor)> msynpred(
antlr3::ClassForwarder\< <r.ruleDescriptor.name> > <r.ruleDescriptor.parameterScope:parameterScope()>);
void m<r.ruleDescriptor.name>_fragment (<r.ruleDescriptor.parameterScope:parameterScope()>);<endif> };
separator="\n">
<endif>
<if(!LEXER)>
<rules:{r | <if(!r.ruleDescriptor.isSynPred)> <headerReturnType(ruleDescriptor=r.ruleDescriptor)>
<r.ruleDescriptor.name> (<r.ruleDescriptor.parameterScope:parameterScope()>); <endif> }; separator="\n">
<rules:{r | <if(r.ruleDescriptor.isSynPred)> <headerReturnType(ruleDescriptor=r.ruleDescriptor)> msynpred(
antlr3::ClassForwarder\< <r.ruleDescriptor.name> > <r.ruleDescriptor.parameterScope:parameterScope()>);
void m<r.ruleDescriptor.name>_fragment (<r.ruleDescriptor.parameterScope:parameterScope()>);<endif> };
separator="\n">
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
// Delegated rules
<recognizer.grammar.delegatedRules:{ruleDescriptor|
<headerReturnType(ruleDescriptor)>
<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>); }; separator="\n">
<endif>

const char * getGrammarFileName();
void reset();
~<name>();

<actions.(actionScope).context>
};

// Function prototypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.
//
<if(!recognizer.grammar.grammarIsRoot)>
extern ANTLR_UINT8* <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/* End of token definitions for <name>

```

```

* =====
*/
/** \} */

<endNamespace(actions)>

#endif

/* END - Note:Keep extra line feed to satisfy UNIX systems */

>>

grammarType() ::= <<
<if(PARSER)>
parser
<endif>
<if(LEXER)>
lexer
<endif>
<if(TREE_PARSER)>
tree parser
<endif>
>>

componentType() ::= <<
<if(PARSER)>
<name>ImplTraits::ParserType
<endif>
<if(LEXER)>
<name>ImplTraits::LexerType
<endif>
<if(TREE_PARSER)>
<name>ImplTraits::TreeParserType
<endif>
>>

componentBaseType() ::= <<
<if(PARSER)>
<name>ImplTraits::BaseParserType
<endif>
<if(LEXER)>
<name>ImplTraits::BaseLexerType
<endif>
<if(TREE_PARSER)>
<name>ImplTraits::BaseTreeParserType
<endif>
>>

```

```

streamType() ::= <<
<if(PARSER)>
<name>ImplTraits::ParserType::StreamType
<endif>
<if(LEXER)>
<name>ImplTraits::LexerType::StreamType
<endif>
<if(TREE_PARSER)>
<name>ImplTraits::TreeParserType::StreamType
<endif>
>>

mainName() ::= <<
<if(PARSER)>
<name>
<endif>
<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>"

headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!ruleDescriptor.isSynPred)>
void
<else>
<returnType()>
<endif>
<else>
<returnType()>
<endif>
>>

// Produce the lexer output
//
lexer( grammar,
name,
tokens,
scopes,
rules,
numRules,
filterMode,

```

```

    superClass,
    labelType="ImplTraits::CommonTokenType") ::= <<

using namespace antlr3;

<beginNamespace(actions)>

<if(filterMode)>

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
 * lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
 * than just BACKTRACKING. In some cases this might generate code akin to:
 * if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
 */
void <name>::memoize(ANTLR_MARKER ruleIndex, ANTLR_MARKER ruleParseStart)
{
    BaseType* base = this;
    if ( this->get_backtracking()>1 )
        base->memoize( ruleIndex, ruleParseStart );
}

bool <name>::alreadyParsedRule(ANTLR_MARKER ruleIndex)
{
    BaseType* base = this;
    if ( this->get_backtracking() > 1 )
        return base->haveParsedRule(ruleIndex);
    return false;
}

<endif>

/* =====
 * Lexer matching rules end.
 * =====
 */

<scopes:{ it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif> }>

<actions.lexer.members>

<name>::~~<name>()
{
    <if(memoize)>
    RuleMemoType* rulememo = this->getRuleMemo();
    if(rulememo != NULL)
    {
        delete rulememo;
    }
}

```

```

    this->setRuleMemo(NULL);
}
<endif>
<if(grammar.directDelegates)>
// Free the lexers that we delegated to
// functions to. NULL the state so we only free it once.
//
<grammar.directDelegates:
    {g| m_<g:delegateName()>->set_lexstate(NULL);
    delete m_<g:delegateName()>; }; separator="\n">
<endif>
}

void
<name>::reset()
{
    this->get_rec()->reset();
}

/** \brief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
*/
const char* <name>::getGrammarFileName()
{
    return fileName;
}

/** \brief Create a new lexer called <name>
*
* \param[in] instream Pointer to an initialized input stream
* \return
* - Success p<name> initialized for the lex start
* - Fail NULL
*/
<name>::<name>(StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName()>>>
:<name>ImplTraits::BaseLexerType(ANTLR_SIZE_HINT, instream, NULL)
{
// See if we can create a new lexer with the standard constructor
//
this->init(instream <grammar.delegators:{g|, <g:delegateName()>>>);
}

/** \brief Create a new lexer called <name>
*
* \param[in] instream Pointer to an initialized input stream

```

```

* \param[state] state Previously created shared recognizer stat
* \return
* - Success p<name> initialized for the lex start
* - Fail NULL
*/
<name>::<name>(StreamType* instream, RecognizerSharedStateType* state<grammar.delegators:{g|,
<g.recognizerName>* <g.delegateName()>>>)
:<name>ImplTraits::BaseLexerType(ANTLR_SIZE_HINT, instream, state)
{
  this->init(instream <grammar.delegators:{g|, <g.delegateName()> } >);
}

void <name>::init(StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g.delegateName()> } >)
{
  /* -----
  * Memory for basic structure is allocated, now to fill in
  * in base ANTLR3 structures. We initialize the function pointers
  * for the standard ANTLR3 lexer function set, but upon return
  * from here, the programmer may set the pointers to provide custom
  * implementations of each function.
  *
  * We don't use the macros defined in <name>.h here so you can get a sense
  * of what goes where.
  */

<if(memoize)>
<if(grammar.grammarIsRoot)>
  // Create a LIST for recording rule memos.
  //
  this->setRuleMemo( new IntTrie(15) ); /* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

<if(grammar.directDelegates)>
  // Initialize the lexers that we are going to delegate some
  // functions to.
  //
  <grammar.directDelegates:
    {g|m_<g.delegateName()> = new <g.recognizerName>(instream, this->get_lexstate(),
this<grammar.delegators:{g|, <g.delegateName()>>}); separator="\n">
  <endif>
<if(grammar.delegators)>
  // Install the pointers back to lexers that will delegate us to perform certain functions
  // for them.
  //
  <grammar.delegators:
    {g| m_<g.delegateName()> = <g.delegateName()>}; separator="\n">
  <endif>

```

```

}

<if(cyclicDFAs)>

/* =====
* DFA tables for the lexer
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =====
* End of DFA tables for the lexer
*/
<endif>

/* =====
* Functions to match the lexer grammar defined tokens from the input stream
*/

<rules; separator="\n\n">

/* =====
* Lexer matching rules end.
* =====
*/
<if(synpreds)>

/* =====
* Lexer syntactic predicates
*/
<synpreds: { p | <lexerSynpred(predname=p)> }>
/* =====
* Lexer syntactic predicates end.
* =====
*/
<endif>

/* End of Lexer code
* =====
* =====
*/

<endNamespace(actions)>

>>

filteringNextToken() ::= <<
<name>ImplTraits::CommonTokenType*
<name>ImplTraits::TokenSourceType::nextToken()

```

```

{
  LexerType* lexer;
  typename LexerType::RecognizerSharedStateType* state;

  lexer = this->get_super();
  state = lexer->get_lexstate();

  /* Get rid of any previous token (token factory takes care of
   * any deallocation when this token is finally used up.
   */
  state->set_token_present( false );
  state->set_error( false ); /* Start out without an exception */
  state->set_failedflag(false);

  /* Record the start of the token in our input stream.
   */
  state->set_tokenStartCharIndex( lexer->index());
  state->set_tokenStartCharPositionInLine( lexer->getCharPositionInLine() );
  state->set_tokenStartLine( lexer->getLine() );
  state->set_text("");

  /* Now call the matching rules and see if we can generate a new token
   */
  for (;;)
  {
  if (lexer->LA(1) == ANTLR_CHARSTREAM_EOF)
  {
  /* Reached the end of the stream, nothing more to do.
   */
  CommonTokenType& teof = m_eofToken;

  teof.set_startIndex(lexer->getCharIndex());
  teof.set_stopIndex(lexer->getCharIndex());
  teof.setLine(lexer->getLine());
  return &teof;
  }

  state->set_token_present(false);
  state->set_error(false); /* Start out without an exception */

  {
  ANTLR_MARKER m;

  m = this->get_istream()->mark();
  state->set_backtracking(1); /* No exceptions */
  state->set_failedflag(false);

  /* Call the generated lexer, see if it can get a new token together.

```

```

*/
lexer->mTokens();
state->set_backtracking(0);

<! mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>

if(state->get_failed())
{
lexer->rewind(m);
lexer->consume(); <! advance one char and try again !>
}
else
{
lexer->emit(); /* Assemble the token and emit it to the stream */
TokenType& tok = state->get_token();
return &tok;
}
}
}
}
}
>>

actionGate() ::= "this->get_backtracking()==0"

filteringActionGate() ::= "this->get_backtracking()==1"

/** How to generate a parser */
genericParser( grammar,
name,
scopes,
tokens,
tokenNames,
rules,
numRules,
bitsets,
inputStreamType,
superClass,
labelType,
members,
rewriteElementType, filterMode,
ASTLabelType="ImplTraits::TreeType*"
) ::= <<

using namespace antlr3;
<if(grammar.grammarIsRoot)>
/** \brief Table of all token names in symbolic order, mainly used for
* error reporting.

```

```

*/
ANTLR_UINT8* <name>TokenNames[<length(tokenNames)>+4]
= {
    (ANTLR_UINT8*) "\<invalid>",    /* String to print to indicate an invalid token */
    (ANTLR_UINT8*) "\<EOR>",
    (ANTLR_UINT8*) "\<DOWN>",
    (ANTLR_UINT8*) "\<UP>",
    <tokenNames:{it |(ANTLR_UINT8*) <it>; separator=",\n"}>
};
<endif>

<@members>

<@end>

/** \brief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
*/
const char* <name>::getGrammarFileName()
{
    return fileName;
}

/** \brief Create a new <name> parser and return a context for it.
*
* \param[in] instream Pointer to an input stream interface.
*
* \return Pointer to new parser context upon success.
*/
<name>::<name>( StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g.delegateName()>>}>
<constructorInitializerType("NULL")>
{
    // See if we can create a new parser with the standard constructor
    //
    this->init(instream<grammar.delegators:{g|, <g.delegateName()>>}>);
}

/** \brief Create a new <name> parser and return a context for it.
*
* \param[in] instream Pointer to an input stream interface.
*
* \return Pointer to new parser context upon success.
*/
<name>::<name>( StreamType* instream, RecognizerSharedStateType* state<grammar.delegators:{g|,
<g.recognizerName>* <g.delegateName()>>}>
<constructorInitializerType("state")>

```

```

{
this->init(instream <grammar.delegators:{g|, <g:delegateName(>>});
}

void <name>::init(StreamType* instream<grammar.delegators:{g|, <g.recognizerName>* <g:delegateName(>>})
{
    <actions.parser.apifuncs>
    <actions.treeparser.apifuncs>
<if(memoize)>
<if(grammar.grammarIsRoot)>
    /* Create a LIST for recording rule memos.
    */
    typedef RecognizerSharedStateType::RuleMemoType RuleMemoType;
    this->setRuleMemo( new RuleMemoType(15) ); /* 16 bit depth is enough for 32768 rules! */<\n>
<endif>
<endif>
<if(grammar.directDelegates)>
    // Initialize the lexers that we are going to delegate some
    // functions to.
    //
    <grammar.directDelegates:
        {g|m_<g:delegateName(> = new <g.recognizerName>(instream, this->get_psrstate(),
this<grammar.delegators:{g|, <g:delegateName(>>}); separator="\n">
    <endif>
        <if(grammar.delegators)>
            // Install the pointers back to lexers that will delegate us to perform certain functions
            // for them.
            //
            <grammar.delegators: {g| m_<g:delegateName(> = <g:delegateName(>}; separator="\n">
        <endif>
    /* Install the token table
    */
    this->get_psrstate()->set_tokenNames( <grammar.composite.rootGrammar.recognizerName>TokenNames );

    <@debugStuff(>

}

void
<name>::reset()
{
    this->get_rec()->reset();
}

/** Free the parser resources
*/
<name>::~~<name>()
{

```

```

    <@cleanup>
    <@end>
<if(grammar.directDelegates)>
    // Free the parsers that we delegated to
    // functions to.NULL the state so we only free it once.
    //
    <grammar.directDelegates:
        { g| m_<g:delegateName()->set_psrstate( NULL );
          delete m_<g:delegateName()->; separator="\n">
    <endif>
<if(memoize)>
<if(grammar.grammarIsRoot)>
    if(this->getRuleMemo() != NULL)
    {
        delete this->getRuleMemo();
        this->setRuleMemo(NULL);
    }
<endif>
<endif>
}

/** Return token names used by this <grammarType()>
 *
 * The returned pointer is used as an index into the token names table (using the token
 * number as the index).
 *
 * \return Pointer to first char * in the table.
 */
static ANTLR_UINT8** getTokenNames()
{
    return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

<members>

/* Declare the bitsets
 */
<bitsets:{ it | <bitsetDeclare(bitsetName={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> },
    words64=it.bits, traits={ <name>ImplTraits } )>>

<if(cyclicDFAs)>

/* =====
 * DFA tables for the parser
 */
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =====

```

```

* End of DFA tables for the parser
*/
<endif>

/* =====
* Parsing rules
*/
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
// Delegated methods that appear to be a part of this
// parser
//
<grammar.delegatedRules:{ruleDescriptor|
  <return Type()> <name>::<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>)
  {
    <if(ruleDescriptor.hasReturnValue)>return <endif> m_<ruleDescriptor.grammar:delegateName()>-
  <ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", ">);
  \}}; separator="\n\n">

<endif>
/* End of parsing rules
* =====
*/

/* =====
* Syntactic predicates
*/
<synpreds:{p | <synpred(predname=p)>>
/* End of syntactic predicates
* =====
*/

>>

constructorInitializerType(rec_state) ::=<<
<if(PARSER)>
:ImplTraits::BaseParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>
<if(TREE_PARSER)>
:ImplTraits::BaseTreeParserType(ANTLR_SIZE_HINT, instream, <rec_state>)
<endif>
>>

parser( grammar,
        name,
        scopes,
        tokens,
        tokenNames,

```

```

rules,
numRules,
bitsets,
ASTLabelType,
superClass="Parser",
labelType="const CommonTokenType*",
members={<actions.parser.members>}
) ::= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTokenStreamType*", rewriteElementType="TOKEN", ...)>
<endNamespace(actions)>
>>

```

```

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */

```

```

treeParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    globalAction,
    rules,
    numRules,
    bitsets,
    filterMode,
    labelType={<ASTLabelType>},
    ASTLabelType="TreeType*",
    superClass="TreeParser",
    members={<actions.treeparser.members>}
) ::= <<
<beginNamespace(actions)>
<genericParser(inputStreamType="CommonTreeNodeStream*", rewriteElementType="NODE", ...)>
<endNamespace(actions)>
>>

```

```

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */

```

```

synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
void <name>::m<ruleName>_fragment( <ruleDescriptor.parameterScope:parameterScope(>) )
{

```

```

<ruleLabelDefs()>
<ruleLabelInitializations()>
<if(trace)>
  ANTLR_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\n", this->LT(1),failed,this-
>get_backtracking() );
  <block>
  ANTLR_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\n", this->LT(1),failed,this-
>get_backtracking());

<else>
  <block>
<endif>
<ruleCleanUp()>
}
// $ANTLR end <ruleName>
>>

```

```
synpred(predname) ::= <<
```

```

bool <name>::msynpred( antlr3::ClassForwarder\< <predname> > )
{
  ANTLR_MARKER start;
  bool success;

  this->inc_backtracking();
  <@start()>
  start = this->mark();
  this->m<predname>_fragment(); // can never throw exception
  success = !( this->get_failedflag() );
  this->rewind(start);
  <@stop()>
  this->dec_backtracking();
  this->set_failedflag(false);
  return success;
}<\n>
>>

```

```

lexerSynpred(predname) ::= <<
<synpred(predname)>
>>

```

```

ruleMemoization(rname) ::= <<
<if(memoize)>
if ( ( this->get_backtracking()>0) && (this->haveParsedRule(<ruleDescriptor.index>)) )
{
  <if(ruleDescriptor.hasMultipleReturnValues)>
  <if(!ruleDescriptor.isSynPred)>
  retval.start = 0;<\n>

```

```

<endif>
<endif>
  <(ruleDescriptor.actions.after):execAfter(>
  <finalCode(finalBlock=finally)>
<if(!ruleDescriptor.isSynPred)>
  <scopeClean(><\n>
<endif>
  return <ruleReturnValue(>;
}
<endif>
>>

```

/\*\* How to test for failure and return from rule \*/

```

checkRuleBacktrackFailure() ::= <<
if (this->hasException())
{
  goto rule<ruleDescriptor.name>Ex;
}
<if(backtracking)>
if (this->hasFailed())
{
  <scopeClean(>
  <@debugClean(>
  return <ruleReturnValue(>;
}
<endif>
>>

```

/\*\* This rule has failed, exit indicating failure during backtrack \*/

```

ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (this->get_backtracking(>0)
{
  this->set_failedflag( true );
  <scopeClean(>
  return <ruleReturnValue(>;
}
<endif>
>>

```

/\*\* How to generate code for a rule. This includes any return type

\* data aggregates required for multiple return values.

\*/

```

rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<

```

/\*\*

\* \$ANTLR start <ruleName>

\* <fileName>:<description>

\*/

```

<returnType()>
<name::<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
  <if(trace)>ANTLR_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", this->LT(1), this-
>get_backtracking() );<endif>
  <ruleDeclarations()>
  <ruleDescriptor.actions.declarations>
  <ruleLabelDefs()>
  <ruleInitializations()>
  <ruleDescriptor.actions.init>
  <ruleMemoization(rname=ruleName)>
  <ruleLabelInitializations()>

  <if(actions.(actionScope).rulecatch)>
  try {
  <else>
  <if(exceptions)>
    try {
  <endif>
  <endif>
  <@preamble()>
  {
    <block>
  }
  <ruleCleanUp()>

  <if(exceptions)>
  <(ruleDescriptor.actions.after):execAfter()>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
  <else>
  <if(!emptyRule)>
  if (this->hasException())
  {
    this->preporterror();
    this->precover();
    <@setErrorReturnValue()>
  }
  <if(ruleDescriptor.actions.after)>
  else
  {
    <(ruleDescriptor.actions.after):execAfter()>
  }<\n>
  <endif>
  <if(actions.(actionScope).rulecatch)>
  } <actions.(actionScope).rulecatch>
  <endif>
  <endif>
  <endif>

```

```

    <if(trace)>ANTLR_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", this->LT(1), failed, this-
>get_backtracking() );<endif>
    <memoize()>
<if(finally)>
    <finalCode(finalBlock=finally)>
<endif>
    <scopeClean()>
    <@postamble()>
    return <ruleReturnValue()>;
}
/* $ANTLR end <ruleName> */
>>

```

```

finalCode(finalBlock) ::= <<
{
    <finalBlock>
}
>>

```

```

catch(decl,action) ::= <<
/* catch(decl,action)
*/
}catch (<e.decl>) {
    <e.action>
}
>>

```

```

ruleDeclarations() ::= <<

<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval(this);<\n>
<else>
<if(PARSER)>
    <name>ImplTraits::RuleReturnValueType _antlr_rule_exit(this);
<endif>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name>;
}>
<endif>
<if(memoize)>
ANTLR_MARKER <ruleDescriptor.name>_StartIndex;
<endif>
>>

```

```

ruleInitializations() ::= <<
/* Initialize rule variables

```

```

*/
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnScope.attributes:{ a |
<if(a.initValue)>retval.<a.name> = <a.initValue>;<endif>
}>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<if(a.initValue)><a.name> = <a.initValue>;<endif>
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex = this->index();<\n>
<endif>
<ruleDescriptor.useScopes:{it | m_<it>_stack.push(<it>Scope()); }; separator="\n">
<ruleDescriptor.ruleScope:{it | m_<it.name>_stack.push(<it.name>Scope()); }; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {it |<labelType> <it.label.text>;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {it | VectorType<const CommonTokenType*> list_<it.label.text>;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(); separator="\n"
>
>>

```

```

ruleLabelInitializations() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelInitVal(); separator="\n"
>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.call_start_placeholder();<\n>
<endif>
<endif>
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<labelType> <it.label.text>;}; separator="\n"

```

```

>
<ruleDescriptor.charLabels:{it |ANTLR_UINT32 <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it | ImplTraits::IntTrieType<CommonTokenType>* list_<it.label.text>;}; separator="\n"
>
>>

lexerRuleLabelInit() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it |list_<it.label.text> = new ImplTraits::IntTrieType<CommonTokenType>(31);}; separator="\n"
>
>>

lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it | delete list_<it.label.text>;}; separator="\n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>

memoize() ::= <<

```

```

<if(memoize)>
<if(backtracking)>
if ( this->get_backtracking() > 0 ) { this->memoize(<ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>
>>

```

```

ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex; ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.call_stop_placeholder();<\n>
<endif>
<endif>
<endif>
>>

```

```

scopeClean() ::= <<
<ruleDescriptor.useScopes:{it | m_<it>_stack.pop(); }; separator="\n">
<ruleDescriptor.ruleScope:{it | m_<it.name>_stack.pop(); }; separator="\n">

>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules, which do not produce tokens.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
 *
 * $ANTLR start <ruleName>
 *
 * Looks to match the characters the constitute the token <ruleName>
 * from the attached input stream.
 *
 * \remark
 * - lexer->error == true if an exception was thrown.
 */
void <name>::m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(>))
{
    ANTLR_UINT32 _type;
    <ruleDeclarations(>
    <ruleDescriptor.actions.declarations>

```

```

    <lexerRuleLabelDefs()>
    <if(trace)>System.out.println("enter <ruleName> '"+(char)this->LA(1)+"' line="+ this->getLine()+":"+ this-
>getCharPositionInLine()+ " failed="+failed+" backtracking="+this->get_backtracking());<endif>

<if(nakedBlock)>
    <ruleMemoization(rname=ruleName)>
    <lexerRuleLabelInit()>
    <ruleDescriptor.actions.init>

    <block><\n>
<else>
    <ruleMemoization(rname=ruleName)>
    <lexerRuleLabelInit()>
    _type = <ruleName>;

    <ruleDescriptor.actions.init>

    <block>
this->get_lexstate()->set_type(_type);
<endif>
    <if(trace)> ANTLR_FPRINTF(stderr, "exit <ruleName> '%c' line=%d:%d failed = %d, backtracking =%d\n",this-
>LA(1),this->getLine(),this->getCharPositionInLine(),failed,this->get_backtracking());<endif>
    <ruleCleanup()>
    <lexerRuleLabelFree()>
    <(ruleDescriptor.actions.after):execAfter()>
    <memoize>
}
// $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
 * wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
 */
void
<name>::mTokens()
{
    <block><\n>

    goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx; ;
}
>>

// S U B R U L E S

```

```

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

// <fileName>:<description>
{
  int alt<decisionNumber>=<maxAlt>;
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  <@prebranch()>
  switch (alt<decisionNumber>)
  {
  <alts:{ a | <altSwitchCase(i,a)> }>
  }
  <@postbranch()>
}
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
{
  // <fileName>:<description>

  ANTLR_UINT32 alt<decisionNumber>;

  alt<decisionNumber>=<maxAlt>;

  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>)
  {
  <alts:{ a | <altSwitchCase(i,a)> }>
  }
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

```

```

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,descriptio
n) ::= <<
// <fileName>:<description>
{
  int cnt<decisionNumber>=0;
  <decls>
  <@preloop()>

  for (;)
  {
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
      <alts:{ a | <altSwitchCase(i,a)>}>
      default:

if ( cnt<decisionNumber> >= 1 )
{
  goto loop<decisionNumber>;
}
<ruleBacktrackFailure()>
<earlyExitEx()>
<@earlyExitException()>
goto rule<ruleDescriptor.name>Ex;
}
cnt<decisionNumber>++;
}
loop<decisionNumber>; /* Jump to here if this rule does not match */
<@postloop()>
}
>>

earlyExitEx() ::= <<
/* mismatchedSetEx()
*/

```

```

new ANTLR_Exception<< <name>ImplTraits, EARLY_EXIT_EXCEPTION, StreamType>( this->get_rec(), "" );
<\n>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<

// <fileName>:<description>
<decls>

<@preloop()>
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:{ a | <altSwitchCase(i,a)> }>
    default:
        goto loop<decisionNumber>; /* break out of the loop */
        break;
    }
}
loop<decisionNumber>; /* Jump out to here if this rule does not match */
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase(altNum,alt) ::= <<
case <altNum>:
    <@prealt()>
    <alt>

```

```

    break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
    <@declarations()>
    <@initializations()>
    <elements:element()>
    <rew>
    <@cleanup()>
}
>>

// ELEMENTS
/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element(e) ::= <<
<@prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label> = <endif> this->matchToken(<token>, &FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
list_<label>.push_back(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = this->LA(1);<\n>

```

```

<endif>
this->matchc(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = this->LA(1);<\n>
<endif>
this->matchRange(<a>, <b>);
<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= this->LA(1);<\n>
<else>
<label>=(<labelType>) this->LT(1);<\n>
<endif>
<endif>
if ( <s> )
{
    this->consume();
    <postmatchCode>
<if(!LEXER)>
    this->set_perror_recovery(false);
<endif>
    <if(backtracking)> this->set_failedflag(false); <\n><endif>
}
else
{
    <ruleBacktrackFailure()>
    <mismatchedSetEx()>
    <@mismatchedSetException()>
<if(LEXER)>
    this->recover();
<else>
<! use following code to make it recover inline;
    this->recoverFromMismatchedSet(&FOLLOW_set_in_<ruleName><elementIndex>);
!>
<endif>
    goto rule<ruleDescriptor.name>Ex;
}<\n>
>>

```

```

mismatchedSetEx() ::= <<
new ANTLR_Exception\< <name>ImplTraits, MISMATCHED_SET_EXCEPTION, StreamType>( this->get_rec(),
"" );
<if(PARSER)>
this->get_exception()->set_expectinSet(NULL);
<! use following code to make it recover inline;
this->get_exception()->set_expectinSet( &FOLLOW_set_in_<ruleName><elementIndex> );
!>
<endif>
>>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
<label>Start = this->getCharIndex();
MATCHS(<string>);
<checkRuleBacktrackFailure()>
<label> = new CommonTokenType;
<label>->set_type( CommonTokenType::TOKEN_INVALID );
<label>->set_startIndex( <label>Start);
<label>->set_stopIndex( this->getCharIndex()-1);
<label>->set_input( this->get_input() );
<else>
this->matchs(<string>);
<checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=(<labelType>)this->LT(1);<\n>
<endif>
this->matchAnyToken();
<checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = this->LA(1);<\n>
<endif>
this->matchAny();
<checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
this->followPush(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)>m_<scope:delegateName()-><endif><rule.name><(if(args)><args;
separator=", "><endif>);<\n>
this->followPop();
<checkRuleBacktrackFailure()>
>>

/** ids+=1 */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
    ANTLR_MARKER <label>Start<elementIndex> = this->getCharIndex();
    <if(scope)>m_<scope:delegateName()-><endif>m<rule.name><(if(scope)>m_<scope:delegateName()-><endif>
<if(args)>, <endif><args; separator=", ">);
    <checkRuleBacktrackFailure()>
    <label> = new CommonTokenType();
}
}

```

```

<label>->set_type( CommonTokenType::TOKEN_INVALID);
<label>->set_startIndex( <label>Start<elementIndex> );
<label>->set_stopIndex( this->getCharIndex()-1);
<label>->set_input( this->get_input() );
}
<else>
<if(scope)>m_<scope:delegateName()-><endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
{
  ANTLR_UINT32 <label>Start<elementIndex>;
  <labelType> <label>;
  <label>Start<elementIndex> = this->getCharIndex();
  this->matchc(ANTLR_CHARSTREAM_EOF);
  <checkRuleBacktrackFailure()>
  <label> = new CommonTokenType();
  <label>->set_type( CommonTokenType::TOKEN_EOF );
  <label>->set_startIndex(<label>Start<elementIndex>);
  <label>->set_stopIndex(this->getCharIndex()-1);
  <label>->set_input( this->get_input() );
}
<else>
  this->matchc(ANTLR_CHARSTREAM_EOF);
  <checkRuleBacktrackFailure()>
  <endif>
>>

// used for left-recursive rules
recRuleDefArg()          ::= "int <recRuleArg()>"
recRuleArg()             ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>

```

```

<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( this->LA(1)== CommonTokenType::TOKEN_DOWN ) {
    this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
    <checkRuleBacktrackFailure()>
    <children:element()>
    this->matchToken(CommonTokenType::TOKEN_UP, NULL);
    <checkRuleBacktrackFailure()>
}
<else>
this->matchToken(CommonTokenType::TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
this->matchToken(CommonTokenType::TOKEN_UP, NULL);
<checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !( <evalPredicate(...)> ) )
{
    <ruleBacktrackFailure()>
    <newFPE(...)>
}
>>

newFPE() ::= <<
ExceptionBaseType* ex = new ANTLR_Exception<< <name>ImplTraits, FAILED_PREDICATE_EXCEPTION,
StreamType>( this->get_rec(), "<description>" );
ex->set_ruleName( "<ruleName>" );
<\n>
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

{
int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>

```

```

    <ruleBacktrackFailure()>

    <newNVException()>
    goto rule<ruleDescriptor.name>Ex;

<endif>
}
}
>>

newNVException() ::= <<
ExceptionBaseType* ex = new ANTLR_Exception<< <name>ImplTraits, NO_VIABLE_ALT_EXCEPTION,
StreamType>( this->get_rec(), "<description>" );
ex->set_decisionNum( <decisionNumber> );
ex->set_state( <stateNumber> );
<@noViableAltException()>
<\n>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
    <edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

dfaLoopbackStateDecls() ::= <<
ANTLR_UINT32 LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    /* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)
    */
    int LA<decisionNumber>_<stateNumber> = this->LA(<k>);
    <edges; separator="\nelse "><\n>
    <if(eotPredictsAlt)>

```

```

    <if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
    else
    {
alt<decisionNumber>=<eotPredictsAlt>;
    }<\n>
    <endif>
    <endif>
}
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( <if(predicates)><predicates> && <endif><labelExpr>))
{
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k> )
{
<edges; separator="\n">

default:
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    <newNVEException()>
    goto rule<ruleDescriptor.name>Ex;<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

```

```

switch ( this->LA(<k> )
{
    <edges; separator="\n">
}<\n>
>>

```

```

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( this->LA(<k> )
{
    <edges; separator="\n"><\n>
    <if(eotPredictsAlt)>
    default:
        alt<decisionNumber>=<eotPredictsAlt>;
        break;<\n>
    <endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: {it |case <it>:}; separator="\n">
{
    <targetState>
}
    break;
>>

```

// C y c l i c D F A

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

```

```

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(this, this->get_rec(), this->get_istream(),
cdfa<decisionNumber> );
<checkRuleBacktrackFailure()>
>>

```

```

/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
 * which are then used to statically initialize the dfa structure, which means that there
 * is no runtime initialization whatsoever, other than anything the C compiler might
 * need to generate. In general the C compiler will lay out memory such that there is no
 * runtime code required.
 */

```

```

cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
 * <dfa.description>
 */

```

```

static const ANTLR_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] =
{
<dfa.eot; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] =
{
<dfa.eof; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] =
{
<dfa.min; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] =
{
<dfa.max; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] =
{
<dfa.accept; wrap="\n", separator=", ", null="-1">
};
static const ANTLR_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] =
{
<dfa.special; wrap="\n", separator=", ", null="-1">
};

/** Used when there is no transition table entry for a particular state */
static const ANTLR_INT32* dfa<dfa.decisionNumber>_T_empty = NULL;

<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR_INT32 dfa<dfa.decisionNumber>_T<i0>[] =
{
<table; separator=", ", wrap="\n", null="-1">
\};<\n>}; null = "">

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
<dfa.transitionEdgeTables:{ xref[dfa<dfa.decisionNumber>_T<xref>]; separator=", ", wrap="\n", null="NULL">
};

<@errorMethod()>

/* Declare tracking structure for Cyclic DFA <dfa.decisionNumber>
*/
class <name>CyclicDFA<dfa.decisionNumber> : public CyclicDFA\< <name>ImplTraits, <name> >, public
<name>Tokens

```

```

{
public:
typedef CyclicDFA\< <name>ImplTraits, <name> > BaseType;
typedef BaseType::ContextType CtxType;

private:
<if(dfa.specialStateSTs)>
//to maintain C-Target compatibility, we need to make some of ctx functions look like member funcs
CtxType* m_ctx;
<endif>

public:
<name>CyclicDFA<dfa.decisionNumber>( ANTLR_INT32 decisionNumber
, const ANTLR_UCHAR* description
, const ANTLR_INT32* const eot
, const ANTLR_INT32* const eof
, const ANTLR_INT32* const min
, const ANTLR_INT32* const max
, const ANTLR_INT32* const accept
, const ANTLR_INT32* const special
, const ANTLR_INT32* const *const transition)
:BaseType( decisionNumber, description, eot, eof, min, max, accept,
special, transition )
{
<if(dfa.specialStateSTs)>
m_ctx = NULL;
<endif>
}

<if(dfa.specialStateSTs)>
ANTLR_UINT32 LA(ANTLR_INT32 i)
{
return m_ctx->LA(i);
}

template\<typename PredType>
bool msynpred( PredType pred )
{
return m_ctx->msynpred(pred);
}

<if(PARSER)>
const CtxType::CommonTokenType* LT(ANTLR_INT32 k)
{
return m_ctx->LT(k);
}
<endif>

```

```

ANTLR_INT32 specialStateTransition(CtxType * ctx, RecognizerType* recognizer, IntStreamType* is,
ANTLR_INT32 s)
{
    ANTLR_INT32 _s;

    m_ctx = ctx;
    _s = s;
    switch (s)
    {
        <dfa.specialStateSTs:{state |
        case <i0>:

<state>}; separator="\n">
        }
<if(backtracking)>
        if ( ctx->get_backtracking() > 0)
        {
            ctx->set_failedflag( true );
            return -1;
        }
<endif>
        ExceptionBaseType* ex = new ANTLR_Exception<< <name>ImplTraits, NO_VIABLE_ALT_EXCEPTION,
StreamType>( recognizer, "<dfa.description>" );
        ex->set_decisionNum( <dfa.decisionNumber> );
        ex->set_state(_s);
        <@noViableAltException()>
        return -1;
    }
<endif>
};

static <name>CyclicDFA<dfa.decisionNumber> cdfa<dfa.decisionNumber>(
    <dfa.decisionNumber>, /* Decision number of this dfa */
    /* Which decision this represents: */
    (const ANTLR_UCHAR*)<dfa.description>,
    dfa<dfa.decisionNumber>_eot, /* EOT table */
    dfa<dfa.decisionNumber>_eof, /* EOF table */
    dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
    dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
    dfa<dfa.decisionNumber>_accept, /* Accept table */
    dfa<dfa.decisionNumber>_special, /* Special transition states */
    dfa<dfa.decisionNumber>_transitions /* Table of transition tables */

);

/* End of Cyclic DFA <dfa.decisionNumber>
* -----

```

```

*/
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{
  ANTLR_UINT32 LA<decisionNumber>_<stateNumber>;<\n>
  ANTLR_MARKER index<decisionNumber>_<stateNumber>;<\n>

  LA<decisionNumber>_<stateNumber> = ctx->LA(1);<\n>
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
  index<decisionNumber>_<stateNumber> = ctx->index();<\n>
  ctx->rewindLast();<\n>
  <endif>
  s = -1;
  <edges; separator="\nelse ">
  <if(semPredState)> <! return input cursor to state before we rewound !>
  ctx->seek(index<decisionNumber>_<stateNumber>);<\n>
  <endif>
  if ( s>=0 )
  {
  return s;
  }
}
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( <if(predicates)><predicates> && <endif><labelExpr> )
{
  s = <targetStateNumber>;
}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

```

```
// DFA EXPRESSIONS
```

```

andPredicates(left,right) ::= "( (<left> ) && (<right> ) )"

orPredicates(operands) ::= "(<operands:{o|(<o>)}; separator=\"||\">)"

notPredicate(pred) ::= "!(<evalPredicate(pred,{})>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "this->msynpred( antlr3::ClassForwarder\<<pred>>() )"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "this->LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
((LA<decisionNumber>_<stateNumber> >= <lower>) && (LA<decisionNumber>_<stateNumber> \<= <upper>))
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((this->LA(<k>) >=
<lower>) && (this->LA(<k>) \<= <upper>))"

setTest(ranges) ::= "<ranges; separator=\" || \">"

// A T T R I B U T E S

makeScopeSet() ::= <<
/* makeScopeSet()
 */
/** Definition of the <scope.name> scope variable tracking
 * structure. An instance of this structure is created by calling
 * <name>_<scope.name>Push().
 */
struct <scopeStruct(sname=scope.name,...)>
{
/* =====
 * Programmer defined variables...
 */
<scope.attributes:{it |<it.decl>;}; separator="\n">

/* End of programmer defined variables
 * =====
 */
};

```

>>

```
globalAttributeScopeDecl(scope) ::= <<  
<if(scope.attributes)>  
/* globalAttributeScopeDecl(scope)  
*/  
<makeScopeSet(...)>  
<endif>  
>>
```

```
ruleAttributeScopeDecl(scope) ::= <<  
<if(scope.attributes)>  
/* ruleAttributeScopeDecl(scope)  
*/  
<makeScopeSet(...)>  
<endif>  
>>
```

```
globalAttributeScopeDef(scope) ::= <<  
<<  
/* globalAttributeScopeDef(scope)  
*/  
<if(scope.attributes)>
```

```
StackType\< <scopeStruct(sname=scope.name)> > <scopeStack(sname=scope.name)>;
```

```
<endif>  
>>
```

```
ruleAttributeScopeDef(scope) ::= <<  
<if(scope.attributes)>  
/* ruleAttributeScopeDef(scope)  
*/  
StackType\< <scopeStruct(sname=scope.name)> > <scopeStack(sname=scope.name,...)>;
```

```
<endif>  
>>
```

```
scopeStruct(sname) ::= <<  
<sname>Scope  
>>
```

```
scopeStack(sname) ::= <<  
m_<sname>_stack  
>>
```

```
returnStructName(r) ::= "<r.name>_return"
```

```

returnType() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
bool
<endif>
%>

/** Generate the C type associated with a single or multiple return
 * value(s).
 */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>_<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
%>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "0".
 */
initValue(typeName) ::= <<
= <cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
typedef <ruleLabelType(referencedRule=label.referencedRule)> RETURN_TYPE_<label.label.text>;<\n>
>>
/** Rule label default value */

```

```

ruleLabelInitVal(label) ::= <<
>>

ASTLabelType() ::= "<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>TreeType*<endif>"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>

<if(!TREE_PARSER)>
struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()> : public
<name>ImplTraits::RuleReturnValueType
{
public:
typedef <name>ImplTraits::RuleReturnValueType BaseType;
<else>
struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
{
<name>ImplTraits::<recognizer.ASTLabelType> start;
<name>ImplTraits::<recognizer.ASTLabelType> stop;
<endif>
<@ruleReturnMembers()>
<ruleDescriptor.returnScope.attributes:{it |<it.type> <it.name>;}; separator="\n">

<if(!TREE_PARSER)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>()
{
}

<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>( BaseParserType* parser )
: BaseType(parser)
{
}

<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>( const
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n )
: BaseType(n)
<if(ruleDescriptor.returnScope.attributes)>
, <ruleDescriptor.returnScope.attributes:{it |<it.name>(n.<it.name>) }; separator=",">
<endif>
{
}

<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>&

```

```

operator=( const <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n )
{
    BaseType::operator=( n );
    <ruleDescriptor.returnScope.attributes:{it | <it.name> = n.<it.name>; }; separator="\n">
    return *this;
}
<else>
    <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>( const
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n )
    <if(ruleDescriptor.returnScope.attributes)>
    <ruleDescriptor.returnScope.attributes:{it | <it.name>(n.<it.name>) }; separator=",">
    <endif>
    {
        start = n.start;
        stop = n.stop;
    }

    <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>&
operator=( const <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>& n )
    {
        start = n.start;
        stop = n.stop;

        <ruleDescriptor.returnScope.attributes:{it | <it.name> = n.<it.name>; }; separator="\n">
        return *this;
    }

<endif>

};<\n><\n>

<endif>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{it |<it.decl>}; separator=",">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>";

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly
 */
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
    m_<scope>_stack.at( m_<scope>_stack.size()-<negIndex>-1).<attr.name>

```

```

<else>
<if(index)>
  m_<scope>_stack.at(<index>).<attr.name>
<else>
  m_<scope>_stack.peek().<attr.name>
<endif>
<endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
  m_<scope>_stack.at( m_<scope>_stack.size()-<negIndex>-1).<attr.name> = <expr>;
<else>
<if(index)>
  m_<scope>_stack.at(<index>).<attr.name> = <expr>;
<else>
  m_<scope>_stack.peek().<attr.name> =<expr>;
<endif>
<endif>
%>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<scope>.<attr.name>
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>

```

```

<attr.name>=<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText())"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>->get_type())"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>->get_line())"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>->get_charPositionInLine())"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>->get_channel())"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>->get_tokenIndex())"
tokenLabelPropertyRef_tree(scope,attr) ::= "(<scope>->get_tree())"
tokenLabelPropertyRef_int(scope,attr) ::= "(<name>ImplTraits::ConvertToInt32(<scope>->getText()))"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(this->get_strstream()->toStringSS(<scope>.start, <scope>.start))
<else>
(this->get_strstream()->toStringTT(<scope>.start, <scope>.stop))
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->get_type())"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->get_line())"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->get_charPositionInLine())"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->get_channel())"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->get_tokenIndex())"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText())"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"

```

```

rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
this->get_input()->toStringSS( this->get_adaptor()->getTokenStartIndex(retval.start), this->get_adaptor()-
>getTokenStopIndex(retval.start))
<else>
this->get_strstream()->toStringTT(retval.start, this->LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "this->getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "this->get_state()->get_tokenStartLine()"
lexerRulePropertyRef_pos(scope,attr) ::= "this->get_state()->get_tokenStartCharPositionInLine()"
lexerRulePropertyRef_channel(scope,attr) ::= "this->get_state()->get_channel()"
lexerRulePropertyRef_start(scope,attr) ::= "this->get_state()->get_tokenStartCharIndex()"
lexerRulePropertyRef_stop(scope,attr) ::= "(this->getCharIndex()-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "(<name>ImplTraits::ConvertToInt32(<scope>->getText()))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;"

/** How to deal with an @after for C targets. Because we cannot rely on
 * any garbage collection, after code is executed even in backtracking
 * mode. Must be documented clearly.
 */
execAfter(action) ::= <<
{
  <action>
}
>>

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> )
{
  <action>
}
<else>
if ( BACKTRACKING == 0 )
{

```

```

    <action>
  }
<endif>
<else>
{
  <action>
}
<endif>
>>

// M I S C (properties, etc...)

bitsetDeclare(bitsetname, words64, traits) ::= <<

/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR_BITWORD <bitsetname>_bits[] = { <words64:{it |ANTLR_UINT64_LIT(<it>)}; separator=", "> };
static <traits>::BitsetListType <bitsetname>( <bitsetname>_bits, <length(words64)> );
>>

codeFileExtension() ::= ".cpp"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Cpp/Cpp.stg
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\*/

/\*\* Templates for building ASTs during normal parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* The situation is not too bad as rewrite (->) usage makes ^ and !

\* invalid. There is no huge explosion of combinations.

\*/

```
finishedBacktracking(block) ::= <<
```

```
<if(!ruleDescriptor.isSynPred)>
```

```
<if(backtracking)>
```

```
if <actions.(actionScope).synpredgate>:
```

```
  <block>
```

```
<else>
```

```
<block>
```

```
<endif>
```

```
<endif>
```

```
>>
```

```
@ruleBody.setErrorReturnValue() ::= <<
```

```
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
```

```
>>
```

```
// TOKEN AST STUFF
```

```
/** ID and output=AST */
```

```
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
```

```
<super.tokenRef(...)>
```

```
<finishedBacktracking({
```

```
<label>_tree = <createNodeFromToken(...)>
```

```
self._adaptor.addChild(root_0, <label>_tree
```

```
})>
```

```
>>
```

```
/** ID! and output=AST (same as plain tokenRef) */
```

```
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= "<super.tokenRef(...)>"
```

```

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>})>}, ...)>
%>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)>

```

>>

```
matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= "<super.matchSet(...)>"
```

```
// note there is no matchSetTrack because -> rewrites force sets to be
```

```
// plain old blocks of alts: (A|B|...|C)
```

```
matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
```

```
<if(label)>
```

```
<label> = self.input.LT(1)<\n>
```

```
<endif>
```

```
<super.matchSet(postmatchCode={ <finishedBacktracking({root_0 =  
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)})>, ...)>
```

```
>>
```

```
// RULE REF AST
```

```
/** rule when output=AST */
```

```
ruleRef(rule,label,elementIndex,args,scope) ::= <<
```

```
<super.ruleRef(...)>
```

```
<finishedBacktracking({ self._adaptor.addChild(root_0, <label>.tree)})>
```

```
>>
```

```
/** rule! is same as normal rule ref */
```

```
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"
```

```
/** rule^ */
```

```
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
```

```
<super.ruleRef(...)>
```

```
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)})>
```

```
>>
```

```
/** x+=rule when output=AST */
```

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRef(...)>
```

```
<listLabel(label, {<label>.tree})>
```

```
>>
```

```
/** x+=rule! when output=AST is a rule ref with list addition */
```

```
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRefBang(...)>
```

```
<listLabel(label, {<label>.tree})>
```

```
>>
```

```
/** x+=rule^ */
```

```
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRefRuleRoot(...)>
```

```
<listLabel(label, {<label>.tree})>
```

```

>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={ }) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

createNodeFromToken(label,terminalOptions={ }) ::= <%
<if(terminalOptions.node)>
<terminalOptions.node><label> <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
<endif>
%>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
})>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python/ASTParser.stg
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\*/

/\*\* Templates for building ASTs during tree parsing.

\*

- \* Deal with many combinations. Dimensions are:
- \* Auto build or rewrite
- \* no label, label, list label (label/no-label handled together)
- \* child, root
- \* token, set, rule, wildcard
- \*
- \* Each combination has its own template except that label/no label
- \* is combined into tokenRef, ruleRef, ...

\*/

```
finishedBacktracking(block) ::= <<
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
  <block>
<else>
<block>
<endif>
>>
```

/\*\* Add a variable to track last element matched \*/

```
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_first_0 = None
```

```

_last = None<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<finishedBacktracking({
<if(rewriteMode)>
retval.tree = _first_0
if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
    retval.tree = self._adaptor.getParent(retval.tree)
<endif>
})>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = self.input.LT(1)
_save_last_<treeLevel> = _last
_first_<treeLevel> = None
<if(!rewriteMode)>
root_<treeLevel> = self._adaptor.nil()<\n>
<endif>
<root:element()>
<if(rewriteMode)>
<finishedBacktracking({
<if(root.el.rule)>
if _first_<enclosingTreeLevel> is None:
    _first_<enclosingTreeLevel> = <root.el.label>.tree<\n>
<else>
if _first_<enclosingTreeLevel> is None:
    _first_<enclosingTreeLevel> = <root.el.label><\n>
<endif>
})>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)

<else>
self.match(self.input, DOWN, None)

```

```

<children:element()>
self.match(self.input, UP, None)<\n>
<endif>
<if(!rewriteMode)>
self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)<\n>
<endif>
_last = _save_last_<treeLevel>

>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node><(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:
_first_<treeLevel> = <label><\n>
})>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */

```

```

tokenRefRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
  _last = self.input.LT(1)
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <finishedBacktracking({
  <if(terminalOptions.node)>
  <label>_tree = <terminalOptions.node>(<label>)
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)
  <endif><\n>
  root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
  })>
  <endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
  <tokenRefRuleRoot(...)>
  <listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={ }) ::= <<
  _last = self.input.LT(1)
  <super.wildcard(...)>
  <if(!rewriteMode)>
  <finishedBacktracking({
  <label>_tree = self._adaptor.dupTree(<label>)
  self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  })>
  <else> <! rewrite mode !>
  <finishedBacktracking({
  if _first_<treeLevel> is None:
    _first_<treeLevel> = <label>
  })>
  <endif>
>>

// SET AST
matchSet(s,label,elementIndex,postmatchCode,terminalOptions={ }) ::= <<
  _last = self.input.LT(1)
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <finishedBacktracking({
  <if(terminalOptions.node)>
  <label>_tree = <terminalOptions.node>(<label>)
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)

```

```

<endif><\n>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<endif>
}, ...>
>>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)>
<noRewrite(...)> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node><(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
})>
<endif>
}, ...)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<finishedBacktracking({
<if(!rewriteMode)>
self._adaptor.addChild(root_<treeLevel>, <label>.tree)
<else> <! rewrite mode !>
if _first_<treeLevel> is None:
    _first_<treeLevel> = <label>.tree<\n>
<endif>
})>
>>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.tree})>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({
root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
})>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.tree})>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to

```

```

* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,scope,terminalOptions={}) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
})>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
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```

```

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\*/

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\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* The situation is not too bad as rewrite (->) usage makes ^ and !

\* invalid. There is no huge explosion of combinations.

\*/

@rule.setErrorReturnValue() ::= <<

retval.tree = (<ASTLabelType>)(ADAPTOR->errorNode(ADAPTOR, INPUT, retval.start, LT(-1), EXCEPTION));

>>

// TOKEN AST STUFF

/\*\* ID and output=AST \*/

tokenRef(token,label,elementIndex,terminalOptions) ::= <<

<super.tokenRef(...)>

<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>

<label>\_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));

ADAPTOR->addChild(ADAPTOR, root\_0, <label>\_tree);

<if(backtracking)>}<endif>

>>

/\*\* ID! and output=AST (same as plain tokenRef) \*/

tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>"

/\*\* ID^ and output=AST \*/

tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<

<super.tokenRef(...)>

<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>

<label>\_tree = <createNodeFromToken(...)>;

root\_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>\_tree, root\_0));

<if(backtracking)>}<endif>

>>

/\*\* ids+=ID! and output=AST \*/

tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<

```

<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )
<endif>ADAPTOR->addChild(ADAPTOR, root_0, <createNodeFromToken(...)>};),...)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,terminalOptions,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>

```

```

<endif>
<super.matchSet(postmatchCode={ <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 =
(<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <createNodeFromToken(...)>, root_0));},...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>ADAPTOR->addChild(ADAPTOR, root_0,
<label>.tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_0 = (<ASTLabelType>)(ADAPTOR-
>becomeRoot(ADAPTOR, <label>.tree, root_0));
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelAST(...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabelAST(...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelAST(...)>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));

```

```
ADAPTOR->addChild(ADAPTOR, root_0, <label>_tree);
```

```
<if(backtracking)></endif>
```

```
>>
```

```
wildcardBang(token,label,elementIndex,terminalOptions) ::= "<super.wildcard(...)>"
```

```
wildcardRuleRoot(label,elementIndex) ::= <<
```

```
<super.wildcard(...)>
```

```
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
```

```
<label>_tree = (<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>));
```

```
root_0 = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_0));
```

```
<if(backtracking)></endif>
```

```
>>
```

```
createNodeFromToken(label,terminalOptions) ::= <<
```

```
<if(terminalOptions.node)>
```

```
<terminalOptions.node>New(<label>) <! new MethodNode(IDLabel) !>
```

```
<else>
```

```
(<ASTLabelType>)(ADAPTOR->create(ADAPTOR, <label>))
```

```
<endif>
```

```
>>
```

```
ruleCleanUp() ::= <<
```

```
<super.ruleCleanUp()>
```

```
<if(backtracking)>
```

```
if ( <actions.(actionScope).synpredgate> )
```

```
{<\n>
```

```
<endif>
```

```
<if(!ruleDescriptor.isSynPred)>
```

```
retval.stop = LT(-1);<\n>
```

```
<endif>
```

```
retval.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
```

```
ADAPTOR->setTokenBoundaries(ADAPTOR, retval.tree, retval.start, retval.stop);
```

```
<ruleDescriptor.allTokenRefsInAltsWithRewrites
```

```
:{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);} ; separator="\n">
```

```
<ruleDescriptor.allRuleRefsInAltsWithRewrites
```

```
:{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>);} ; separator="\n">
```

```
<if(backtracking)>
```

```
{<\n>
```

```
<endif>
```

```
>>
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/C/ASTParser.stg
```

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```
/*
```

```

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr.StringTemplate;
using Antlr.StringTemplate.Language;
<if(!backtracking)>
using Hashtable = System.Collections.Hashtable;
<endif>

>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
private StringTemplate _st;
public StringTemplate Template { get { return _st; } set { _st = value; } }
public override string ToString() { return (Template==null) ? string.Empty : Template.ToString(); }

```

>>

```
@genericParser.members() ::= <<
<@super.members(>
protected StringTemplateGroup templateLib = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );
```

```
public StringTemplateGroup TemplateLib
{
get { return this.templateLib; }
set { this.templateLib = value; }
}
```

```
/// \<summary> Allows convenient multi-value initialization:
```

```
/// "new STAttrMap().Add(...).Add(...)"
```

```
/// \</summary>
```

```
protected class STAttrMap : Hashtable
{
public STAttrMap Add(string attrName, object value)
{
base.Add(attrName, value);
return this;
}
public STAttrMap Add(string attrName, int value)
{
base.Add(attrName, value);
return this;
}
}
}
```

>>

```
/** x+=rule when output=template */
```

```
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
```

```
<ruleRef(...)>
```

```
<listLabel(elem=label+".Template",...)>
```

>>

```
rewriteTemplate(alts) ::= <<
```

```
// TEMPLATE REWRITE
```

```
<if(backtracking)>
```

```
if ( <actions.(actionScope).synpredgate> )
```

```
{
```

```
<alts:rewriteTemplateAlt(); separator="else ">
```

```
<if(rewriteMode)><replaceTextInLine()><endif>
```

```
}
```

```
<else>
```

```
<alts:rewriteTemplateAlt(); separator="else ">
```

```
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>
```

```
replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).Replace(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start),
retval.Template);
<else>
((TokenRewriteStream)input).Replace(
((IToken)retval.Start).TokenIndex,
input.LT(-1).TokenIndex,
retval.Template);
<endif>
>>
```

```
rewriteTemplateAlt() ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>) {
    retval.Template = <it.alt>;
}<\n>
<else>
{
    retval.Template = <it.alt>;
}<\n>
<endif>
>>
```

```
rewriteEmptyTemplate(alts) ::= <<
null;
>>
```

```
/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template after having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
```

```
rewriteExternalTemplate(name,args) ::= <<
templateLib.GetInstanceOf("<name>"<if(args)>,
new STAttrMap(<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>
```

```
/** expr is a string expression that says what template to load */
```

```

rewriteIndirectTemplate(expr,args) ::= <<
templateLib.GetInstanceOf(<expr><if(args)>,
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
new StringTemplate(templateLib, "<template>"<if(args)>,
new STAttrMap()<args:{a | .Add("<a.name>", <a.value>)}>
<endif>)
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).SetAttribute("<attrName>",<expr>);
>>

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<
new StringTemplate(templateLib,<stringExpr>)
>>

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp2/ST.stg

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```

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```

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/

```

```
@outputFile.debugPreprocessor() ::= "#define ANTLR_DEBUG"
```

```

@outputFile.imports() ::= <<
<@super.imports(>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

```

```

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames =
new string[]
{
"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">
};<\n>
<endif>
<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
int ruleLevel = 0;
public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
<if(profile)>
<ctorForProfilingRootGrammar(>
<else>
<ctorForRootGrammar(>
<endif>
<ctorForPredefinedListener(>
<else><! imported grammar !>
public int RuleLevel { get { return <grammar.delegators:{g| <g.delegateName(>>}.RuleLevel; } }

```

```

public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>}.IncRuleLevel(); }
public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>}.DecRuleLevel(); }
<ctorForDelegateGrammar()>
<endif>
<if(profile)>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
base.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected virtual bool EvalPredicate( bool result, string predicate )
{
dbg.SemanticPredicate( result, predicate );
return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, int port,
RecognizerSharedState state )
: base( input, state )
{
<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>> }> );}; separator="\n">
<parserCtorBody()>
<@finally()>
}<\n>
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )

```

```

: this( input, new Profiler(null), new RecognizerSharedState() )
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>( <InputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state )
: base( input, dbg, state )
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<grammar.directDelegates:
{ g|<g.delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegators:{ g|,
<g.delegateName()>>> );}; separator="\n">
<parserCtorBody()>
<@finally()>
}
}<\n>
>>

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <InputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state<grammar.delegators:{ g|, <g.recognizerName> <g.delegateName()>>> )
: base( input, dbg, state )
{
<grammar.directDelegates:
{ g|<g.delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegators:{ g|,
<g.delegateName()>>> );}; separator="\n">
<parserCtorBody()>
}<\n>
}>>

ctorForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <InputStreamType> input, IDebugEventListener dbg
)
<@superClassRef>: base( input, dbg, new RecognizerSharedState() )<@end>
{
<if(profile)>
Profiler p = (Profiler)dbg;
p.setParser(this);
<endif>
<grammar.directDelegates:{ g|<g.delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{ g|, <g.delegateName()>>> );}; separator="\n">
<parserCtorBody()>
<@finally()>
}<\n>
}>>

createListenerAndHandshake() ::= <<

```

```

<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );<\n>
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );<\n>
<endif>
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

/*
* Many of the following rules were merged into CSharp2.stg.
*/

@rule.preamble() ::= <<
if (RuleLevel == 0)
DebugListener.Commence();
IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{
// dbg.EnterRule( GrammarFileName, "<ruleName>" );
// if ( RuleLevel == 0 )
// {
// dbg.Commence();
// }
// IncRuleLevel();
// dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );<\n>
//>>

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
DebugListener.Terminate();
>>
//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n>
//}
//finally

```

```

//{{
// dbg.ExitRule( GrammarFileName, "<ruleName>" );
// DecRuleLevel();
// if ( RuleLevel == 0 )
// {
//   dbg.Terminate();
// }
//}<\n>
//>>

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//enterSubRule() ::= <<
//try
//{{
// dbg.EnterSubRule( <decisionNumber> );<\n>
//>>

//exitSubRule() ::= <<
//}
//finally
//{{
// dbg.ExitSubRule( <decisionNumber> );
//}<\n>
//>>

//enterDecision() ::= <<
//try
//{{
// dbg.EnterDecision( <decisionNumber> );<\n>
//>>

//exitDecision() ::= <<
//}
//finally
//{{
// dbg.ExitDecision( <decisionNumber> );
//}<\n>
//>>

//enterAlt(n) ::= "dbg.EnterAlt( <n> );<\n>"

// Region overrides that tell various constructs to add debugging triggers

//@block.predecision() ::= "<enterSubRule()><enterDecision()>"

```

```

//@block.postdecision() ::= "<exitDecision(>"

//@block.postbranch() ::= "<exitSubRule(>"

//@ruleBlock.predecision() ::= "<enterDecision(>"

//@ruleBlock.postdecision() ::= "<exitDecision(>"

//@ruleBlockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

//@blockSingleAlt.preal() ::= "<enterAlt(n=\"1\")>"

//@positiveClosureBlock.preloop() ::= "<enterSubRule(>"

//@positiveClosureBlock.postloop() ::= "<exitSubRule(>"

//@positiveClosureBlock.predecision() ::= "<enterDecision(>"

//@positiveClosureBlock.postdecision() ::= "<exitDecision(>"

//@positiveClosureBlock.earlyExitException() ::=
// "dbg.RecognitionException( eee<decisionNumber> );<n>"

//@closureBlock.preloop() ::= "<enterSubRule(>"

//@closureBlock.postloop() ::= "<exitSubRule(>"

//@closureBlock.predecision() ::= "<enterDecision(>"

//@closureBlock.postdecision() ::= "<exitDecision(>"

//@altSwitchCase.preal() ::= "<enterAlt(n=i)>"

//@element.prematch() ::=
// "dbg.Location( <it.line>, <it.pos> );"

//@matchSet.mismatchedSetException() ::=
// "dbg.RecognitionException( mse );"

//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//dfaDecision(decisionNumber,description) ::= <<
//try
//{
// isCyclicDecision = true;

```

```

// <super.dfaDecision(...)>
//}
//catch ( NoViableAltException nvae )
//{
// dbg.RecognitionException( nvae );
// throw nvae;
//}
//>>

//@cyclicDFA.errorMethod() ::= <<
//public override void Error( NoViableAltException nvae )
//{
// ((DebugParser)recognizer).dbg.RecognitionException( nvae );
//}
//>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>, "<description>")
>>

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp2/Dbg.stg

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\*/

/\*\* Templates for building ASTs during tree parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* Each combination has its own template except that label/no label

\* is combined into tokenRef, ruleRef, ...

\*/

/\*\* Add a variable to track last element matched \*/

```
ruleDeclarations() ::= <<
```

```
<super.ruleDeclarations()>
```

```
<ASTLabelType> _last;<\n>
```

```
<ASTLabelType> _first_0;<\n>
```

```
>>
```

/\*\* Add a variable to track last element matched \*/

```
ruleInitializations() ::= <<
```

```
<super.ruleInitializations()>
```

```
_last = NULL;<\n>
```

```
_first_0 = NULL;<\n>
```

```
>>
```

/\*\* What to emit when there is no rewrite rule. For auto build

\* mode, does nothing.

\*/

```
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
```

```
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
```

```
<if(rewriteMode)>
```

```
retval.tree = (<ASTLabelType>)_first_0;
```

```
if ( ADAPTOR->getParent(ADAPTOR, retval.tree) != NULL && ADAPTOR->isNilNode(ADAPTOR,  
ADAPTOR->getParent(ADAPTOR, retval.tree) ) )
```

```
{
```

```
    retval.tree = (<ASTLabelType>)ADAPTOR->getParent(ADAPTOR, retval.tree);
```

```
}
```

```
<endif>
```

```
<if(backtracking)>}<endif>
```

```

>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)LT(1);
{
<ASTLabelType> _save_last_<treeLevel>;
<ASTLabelType> _first_<treeLevel>;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel>;
<endif>
_save_last_<treeLevel> = _last;
_first_<treeLevel> = NULL;
<if(!rewriteMode)>
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel> == NULL ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<if(backtracking)>}<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
    MATCHT(ANTLR3_TOKEN_DOWN, NULL);
    <children:element()>
    MATCHT(ANTLR3_TOKEN_UP, NULL);
}
<else>
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
<endif>
<if(!rewriteMode)>
ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

```

```

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else>
<if(backtracking)>if ( BACKTRACKING ==0 ) {<endif>
if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>;
<if(backtracking)>}<endif>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);

```

```

<if(backtracking)></endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupTree(ADAPTOR, <label>);
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)></endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( BACKTRACKING == 0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node>New(<label>);
<else>
<label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
<endif><\n>
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>_tree);
<if(backtracking)>}</endif>
<endif>
}
,...)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

```

```

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.matchSet(...)>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  <if(terminalOptions.node)>
  <label>_tree = <terminalOptions.node>New(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)ADAPTOR->dupNode(ADAPTOR, <label>);
  <endif>
  root_<treeLevel> = (<ASTLabelType>)ADAPTOR->becomeRoot(ADAPTOR, <label>_tree, root_<treeLevel>);
  <if(backtracking)>}\<endif>
  <endif>
  }, ...
  )>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);
  <super.ruleRef(...)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )
  {
  <endif>
  <if(!rewriteMode)>
  ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <label>.tree);
  <else>
  if ( _first_<treeLevel> == NULL ) _first_<treeLevel> = <label>.tree;
  <endif>
  <if(backtracking)>}<endif>
  >>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRef(...)>
  <super.listLabelAST(elem=label,...)>
  >>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = (<ASTLabelType>)LT(1);

```

```

<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( ( <actions.(actionScope).synpredgate> ) ) <endif>root_<treeLevel> =
(<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <label>.tree, root_<treeLevel>));
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<super.listLabelAST(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
* change nextToken to nextNode.
*/
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>New(stream_<token>->nextNode(stream_<token>))
<else>
stream_<token>->nextNode(stream_<token>)
<endif>
>>

```

```

ruleCleanup() ::= <<
<super.ruleCleanup(...)>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
<endif>
retval.tree = (<ASTLabelType>)ADAPTOR->rulePostProcessing(ADAPTOR, root_0);
<if(backtracking)>
}
<endif>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {if (stream_<it> != NULL) stream_<it>->free(stream_<it>);}; separator="\n">
>>

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/C/ASTTreeParser.stg
```

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group Dbg;

```
/*
```

```
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\*/

```
@parserBody.mixins() ::= <<  
include ANTLR3::<if(profile)>Profile<else>Debug<endif>::ParserEvents  
>>
```

```
@parserBody.additionalMembers() ::= <<  
<if(grammar.grammarIsRoot)>  
RULE_NAMES = [  
:invalid_rule, <grammar.allImportedRules:{rST|:<rST.name>}>; wrap="\n ", separator=", ">  
].freeze  
<endif>  
>>
```

```
@rule.body() ::= <<  
in_rule(grammar_file_name, "<ruleName>") do  
@debug_listener.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>)  
  
<@super.body()>  
  
@debug_listener.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>)  
end  
>>
```

```
// Common debug event triggers used by region overrides below  
enterSubRule() ::= <<  
in_subrule(<decisionNumber>) do<\n>  
>>
```

```
exitSubRule() ::= <<  
end<\n>  
>>
```

```
enterDecision() ::= <<  
in_decision(<decisionNumber>) do<\n>  
>>
```

```
exitDecision() ::= <<  
end<\n>
```

```
>>
```

```
enterAlt(n) ::= <<  
in_alternative(<n><\n>  
>>
```

```
// Region overrides that tell various constructs to add debugging triggers  
@block.body() ::= <<  
in_subrule(<decisionNumber>) do  
  <@super.body()>  
end  
>>
```

```
// @blockBody.predecision() ::= "<enterSubRule()>"  
// @blockBody.postdecision() ::= "<exitDecision()>"  
// @blockBody.postbranch() ::= "<exitSubRule()>"  
@blockBody.decision() ::= <<  
in_decision(<decisionNumber>) do  
  <@super.decision()>  
end  
>>
```

```
@ruleBlock.decision() ::= <<  
in_decision(<decisionNumber>) do  
  <@super.decision()>  
end<\n>  
>>
```

```
@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n={1})>"
```

```
@blockSingleAlt.prealt() ::= "<enterAlt(n={1})>"
```

```
@positiveClosureBlock.loopBody() ::= <<  
in_subrule(<decisionNumber>) do  
  <@super.loopBody()>  
end  
>>
```

```
@positiveClosureBlockLoop.decisionBody() ::= <<  
in_decision(<decisionNumber>) do
```

```
<@super.decisionBody()>
end
>>
```

```
@positiveClosureBlockLoop.earlyExitException() ::= <<
@debug_listener.recognition_exception(eee)
>>
```

```
@closureBlock.loopBody() ::= <<
in_subrule(<decisionNumber>) do
<@super.loopBody()>
end
>>
```

```
@closureBlockLoop.decisionBody() ::= <<
in_decision(<decisionNumber>) do
<@super.decisionBody()>
end
>>
```

```
@altSwitchCase.preatt() ::= "<enterAlt(altNum)>" // altNum is arg of altSwitchCase
```

```
element(e) ::= <<
@debug_listener.location(<e.line>, <e.pos>) // e is arg of element
<super.element(e)>
>>
```

```
@matchSet.mismatchedSetException() ::= "@debug_listener.recognition_exception(mse)"
```

```
@dfaState.noViableAltException() ::= <<
nvae = NoViableAlternative( "<description>", <decisionNumber>, <stateNumber> )
@debug_listener.recognition_exception( nvae )
raise( nvae )<\n>
>>
```

```
@dfaStateSwitch.noViableAltException() ::= <<
nvae = NoViableAlternative( "<description>", <decisionNumber>, <stateNumber> )
@debug_listener.recognition_exception( nvae )
raise( nvae )<\n>
>>
```

```

dfaDecision(decisionNumber,description) ::= <<
begin
  @state.cyclic_decision = true
  <super.dfaDecision(...)>
rescue ANTLR3::Error::NoViableAlternative => nvae
  @debug_listener.recognition_exception(nvae)
  raise
end
>>

```

```

@cyclicDFA.errorMethod() ::= <<
def error(nvae)
  @recognizer.debug_listener.recognition_exception(nvae)
  super
end
>>
/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
predicate?("<description>") { <pred> }
>>

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Ruby/Dbg.stg  
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```

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*/

```

```

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
*/

```

```

parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void InitializeTreeAdaptor();
protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
    get
    {
        return adaptor;
    }
    set
    {
        <if(grammar.grammarIsRoot)>
            this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
        <else>
            this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
        <endif><\n>
        <grammar.directDelegates:{g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
    }
}<\n>
>>

```

```

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

```

```

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,
<if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif> );
DebugListener = proxy;
<inputStreamType> = new Debug<inputStreamType>( input, proxy );
try
{

```

```

proxy.Handshake();
}
catch ( IOException ioe )
{
  ReportError( ioe );
}
>>

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
proxy.TreeAdaptor = adap;
>>

@ctorForProfilingRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;
>>

@ctorForPredefinedListener.superClassRef() ::= ": base( input, dbg )"

@ctorForPredefinedListener.finally() ::= <<
<if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>
ITreeAdaptor adap = new CommonTreeAdaptor();
TreeAdaptor = adap;<\n>
<endif>
>>

//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/ASTDbg.stg
```

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```
/*
```

```
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```

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\*/

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\*/

/\*\* The API version of the runtime that recognizers generated by this runtime

```

* need.
*/
apiVersion() ::= "1"

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
    "True":"true",
    "False":"false",
    "true":"true",
    "false":"false",
    default:"false"
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::=

<<
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
import sys
from antlr3 import *
<if(TREE_PARSER)>
from antlr3.tree import *<\n>
<endif>
from antlr3.compat import set, frozenset
<@end>

<actions.(actionScope).header>

<! <docComment> !>

# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<tokens:{it | <it.name>=<it.type>}; separator="\n">

<recognizer>

```

```

<if(actions.(actionScope).main)>
<actions.(actionScope).main>
<else>
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
<if(LEXER)>
    from antlr3.main import LexerMain
    main = LexerMain(<recognizer.name>)<\n>
<endif>
<if(PARSER)>
    from antlr3.main import ParserMain
    main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)<\n>
<endif>
<if(TREE_PARSER)>
    from antlr3.main import WalkerMain
    main = WalkerMain(<recognizer.name>)<\n>
<endif>
    main.stdin = stdin
    main.stdout = stdout
    main.stderr = stderr
    main.execute(argv)<\n>
<endif>

<actions.(actionScope).footer>

if __name__ == '__main__':
    main(sys.argv)

>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode,
    labelType="CommonToken", superClass="Lexer") ::= <<
<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>; separator="\n">

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    <scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>>

    grammarFileName = "<fileName>"
    api_version = <apiVersion()>

    def __init__(self<grammar.delegators:{g|, <g:delegateName()>>, input=None, state=None):
        if state is None:
            state = RecognizerSharedState()
            super(<grammar.recognizerName>, self).__init__(input, state)

<if(memoize)>
<if(grammar.grammarIsRoot)>
    self._state.ruleMemo = {}

```

```

<endif>
<endif>

    <grammar.directDelegates:
        {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input,
state)); separator="\n">
    <grammar.directDelegates:
        {g|<g.delegates:{h|self.<h:delegateName()> = self.<g:delegateName()>.<h:delegateName()>};
separator="\n">}; separator="\n">
    <grammar.delegators:
        {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">
    <last(grammar.delegators):
        {g|self.gParent = <g:delegateName()>}; separator="\n">
        self.delegates = [<grammar.delegates: {g|self.<g:delegateName()>}; separator = ", ">]

    <cyclicDFAs:{ dfa | <cyclicDFAInit(dfa)>}; separator="\n">

    <actions.lexer.init>

    <actions.lexer.members>

<if(filterMode)>
    <filteringNextToken()>
<endif>
    <rules; separator="\n\n">

    <synpreds:{ p | <lexerSynpred(p)>}>

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
def nextToken(self):
    while True:
        if self.input.LA(1) == EOF:
            return self.makeEOFToken()

        self._state.token = None

```

```

self._state.channel = DEFAULT_CHANNEL
self._state.tokenStartCharIndex = self.input.index()
self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
self._state.tokenStartLine = self.input.line
self._state._text = None
try:
    m = self.input.mark()
    try:
        # means we won't throw slow exception
        self._state.backtracking = 1
        try:
            self.mTokens()
        finally:
            self._state.backtracking = 0

    except BacktrackingFailed:
        # mTokens backtracks with synpred at backtracking==2
        # and we set the synpredgate to allow actions at level 1.
        self.input.rewind(m)
        self.input.consume() # advance one char and try again

    else:
        self.emit()
        return self._state.token

except RecognitionException, re:
    # shouldn't happen in backtracking mode, but...
    self.reportError(re)
    self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        super(<grammar.recognizerName>, self).memoize(input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return super(<grammar.recognizerName>, self).alreadyParsedRule(input, ruleIndex)
    return False

>>

actionGate() ::= "self._state.backtracking == 0"

filteringActionGate() ::= "self._state.backtracking == 1"

```

```

/** How to generate a parser */

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
              bitsets, inputStreamType, superClass, labelType, members,
              rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<
<if(grammar.grammarIsRoot)>
# token names
tokenNames = [
  "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
  <tokenNames; wrap, separator=", ">
]<\n>
<else>
from <grammar.composite.rootGrammar.recognizerName> import tokenNames<\n>
<endif>
<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>}>

<grammar.directDelegates:
{g|from <g.recognizerName> import <g.recognizerName>; separator="\n">

<rules:{it|<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>}>

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
  grammarFileName = "<fileName>"
  api_version = <apiVersion()>
  tokenNames = tokenNames

  def __init__(self<grammar.delegators:{g|, <g.delegateName()>}>, input, state=None, *args, **kwargs):
    if state is None:
      state = RecognizerSharedState()

    <@args()>
    super(<grammar.recognizerName>, self).__init__(input, state, *args, **kwargs)

<if(memoize)>
<if(grammar.grammarIsRoot)>
  self._state.ruleMemo = {}
<endif>
<endif>

  <cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

  <scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>}>
  <rules:{it | <ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)>}>

  <init>

  <grammar.delegators:

```

```

    {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">
    <grammar.directDelegates:
    {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>self, input,
state)); separator="\n">
    <grammar.directDelegates:
    {g|<g.delegates:{h|self.<h:delegateName()> = self.<g:delegateName()>.<h:delegateName()>};
separator="\n">}; separator="\n">
    <last(grammar.delegators):
    {g|self.gParent = self.<g:delegateName()>}; separator="\n">
    self.delegates = [<grammar.delegates: {g|self.<g:delegateName()>}; separator = ", ">]

```

```
<@init><@end>
```

```
<@members><@end>
```

```
<members>
```

```
<rules; separator="\n\n">
```

```
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
```

```
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">
```

```
<synpreds:{p | <synpred(p)>}>
```

```
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
```

```
<bitsets:{it | FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{it |
<it>};separator=", ">])<\n>}>
```

```
>>
```

```

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<\> <if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<if(ruleDescriptor.parameterScope)
><ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", "><endif>)

```

```
>>
```

```

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="Object", superClass="Parser", labelType="Token",
    members={<actions.parser.members>},
    init={<actions.parser.init>}
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,

```

```

        bitsets, "TokenStream", superClass,
        labelType, members, "Token",
        false, init, ASTLabelType)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
            numRules, bitsets, filterMode, labelType={ <ASTLabelType> }, ASTLabelType="Object",
superClass={ <if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif> },
members={ <actions.treeparser.members> },
init={ <actions.treeparser.init> }
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
               bitsets, "TreeNodeStream", superClass,
               labelType, members, "Node",
               filterMode, init, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
# $ANTLR start "<ruleName>"
def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope(>):
    <ruleLabelDefs(>)
<if(trace)>
    self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
    try:
        <block>

    finally:
        self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)

<else>
    <block>
<endif>
# $ANTLR end "<ruleName>"

>>

```

```

synpred(name) ::= <<
def <name>(self):
    self._state.backtracking += 1
    <@start()>
    start = self.input.mark()
    try:
        self.<name>_fragment()
    except BacktrackingFailed:
        success = False
    else:
        success = True
    self.input.rewind(start)
    <@stop()>
    self._state.backtracking -= 1
    return success

```

```
>>
```

```

lexerSynpred(name) ::= <<
<synpred(name)>
>>

```

```

ruleMemoization(name) ::= <<
<if(memoize)>
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue()>

```

```

<endif>
>>

```

```

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if self._state.backtracking > 0:
    raise BacktrackingFailed

```

```

<endif>
>>

```

```

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */

```

```

rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>

```

```

# $ANTLR start "<ruleName>"
# <fileName>:<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>
    <@body><ruleBody()><@end>
    <@postamble()>
    return <ruleReturnValue()>

# $ANTLR end "<ruleName>"
>>

```

```

ruleBody() ::= <<
<if(memoize)>
<if(backtracking)>
success = False<\n>
<endif>
<endif>
try:
    try:
        <ruleMemoization(name=ruleName)>
        <block>
        <ruleCleanUp()>
        <(ruleDescriptor.actions.after):execAction()>

<if(memoize)>
<if(backtracking)>
    success = True<\n>
<endif>
<endif>
<if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
<else>
    except RecognitionException, re:
        self.reportError(re)
        self.recover(self.input, re)
        <@setErrorReturnValue()>

```

```

<endif>
<else>
  finally:
    pass

<endif>
<endif>
finally:
<if(trace)>
  self.traceOut("<ruleName>", <ruleDescriptor.index>)\n>
<endif>
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
  pass
>>

catch(decl,action) ::= <<
except <e.decl>:
  <e.action>

>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval = self.<ruleDescriptor.name>_return()
retval.start = self.input.LT(1)\n>
<elseif(ruleDescriptor.returnScope)>
<ruleDescriptor.returnScope.attributes: { a |
<a.name> = <if(a.initValue)><a.initValue><else>None<endif>
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex = self.input.index()
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {it | self.<it>_stack.append(<it>_scope())}; separator="\n">
<ruleDescriptor.ruleScope: {it | self.<it.name>_stack.append(<it.name>_scope())}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {it | self.<it>_stack.pop()}; separator="\n">
<ruleDescriptor.ruleScope: {it | self.<it.name>_stack.pop()}; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | <it.label.text> = None}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
: {it | list_<it.label.text> = None}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels: {it | <it.label.text> = None}; separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it | <it.label.text> = None}; separator="\n"
>
<ruleDescriptor.charLabels: {it | <it.label.text> = None}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it | list_<it.label.text> = None}; separator="\n"
>
>>

```

```

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>

```

```

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = self.input.LT(-1)<\n>
<endif>
<endif>
>>

```

```

memoize() ::= <<
<if(memoize)>

```

```

<if(backtracking)>
if self._state.backtracking > 0:
    self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex, success)

<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
# $ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope>):
<if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)\n
<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
<if(memoize)>
<if(backtracking)>
    success = False\n
<endif>
<endif>
    try:
<if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>\n
<else>
        _type = <ruleName>
        _channel = DEFAULT_CHANNEL

        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>
        <ruleCleanUp()>
        self._state.type = _type
        self._state.channel = _channel
        <(ruleDescriptor.actions.after):execAction()>
<endif>
<if(memoize)>
<if(backtracking)>
    success = True\n
<endif>
<endif>

```

```

    finally:
<if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
<ruleScopeCleanUp()>
    <memoize()>
    pass

# $ANTLR end "<ruleName>"

>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
    <block><\n>

>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@body><blockBody()><@end>
>>

blockBody() ::= <<
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<@prebranch()>
<alts:{a | <altSwitchCase(i, a)>}; separator="\n">
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>

```

```

<@predecision(>
<@decision><decision><@end>
<@postdecision(>
<alts:{ a | <altSwitchCase(i, a)>}; separator="\nel">
>>

```

```

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt(>
<alts>
<@postalt(>
>>

```

*/\*\* A special case of a (...) subrule with a single alternative \*/*

```

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt(>
<alts>
<@postalt(>
>>

```

*/\*\* A (..)+ block with 1 or more alternatives \*/*

```

positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
cnt<decisionNumber> = 0
<decls>
<@preloop(>
<@loopBody>
<positiveClosureBlockLoop(>
<@end>
<@postloop(>
>>

```

```

positiveClosureBlockLoop() ::= <<
while True: #loop<decisionNumber>
  alt<decisionNumber> = <maxAlt>
  <@predecision(>
  <@decisionBody><decision><@end>
  <@postdecision(>
  <alts:{ a | <altSwitchCase(i, a)>}; separator="\nel">
  else:
    if cnt<decisionNumber> >= 1:
      break #loop<decisionNumber>

  <ruleBacktrackFailure(>

```

```

        eee = EarlyExitException(<decisionNumber>, self.input)
        <@earlyExitException()>
        raise eee

    cnt<decisionNumber> += 1
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
# <fileName>:<description>
<decls>
<@preloop()>
<@loopBody>
<closureBlockLoop()>
<@end>
<@postloop()>
>>

closureBlockLoop() ::= <<
while True: #loop<decisionNumber>
    alt<decisionNumber> = <maxAlt>
    <@predecision()>
    <@decisionBody><decision><@end>
    <@postdecision()>
    <alts:{ a | <altSwitchCase(i, a)>} ; separator="\nel">
    else:
        break #loop<decisionNumber>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase(altNum,alt) ::= <<
if alt<decisionNumber> == <altNum>:
    <@prealt()>

```

```

    <alt>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt, treeLevel,rew) ::= <<
# <fileName>:<description>
pass <! so empty alternatives are a valid block !>
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element(e) ::= <<
<@prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)><label> = <endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, label)>
>>

listLabel(label, elem) ::= <<
if list_<label> is None:
    list_<label> = []
list_<label>.append(<elem>)<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>

```

```

<endif>
self.match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchRange(<a>, <b>)
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
if <s>:
    self.input.consume()
    <postmatchCode>
<if(!LEXER)>
    self._state.errorRecovery = False<\n>
<endif>

else:
    <ruleBacktrackFailure()>
    mse = MismatchedSetException(None, self.input)
    <@mismatchedSetException()>
<if(LEXER)>
    self.recover(mse)
    raise mse
<else>
    raise mse
    <! use following code to make it recover inline; remove throw mse;
    self.recoverFromMismatchedSet(
        self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
    )
    !>
<endif>
<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(label, label)>
>>

```

```

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
<label>Start = self.getCharIndex()
self.match(<string>)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>Start, stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.match(<string>)
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
self.matchAny(self.input)
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<wildcard(...)>
<listLabel(label,label)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchAny()
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */

```

```

ruleRef(rule,label,elementIndex,args,scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)><label> = <endif>self.<if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=",
">)<\n>
self._state.following.pop()
>>

```

```

/** ids+=rule */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>

```

```

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
    input=self.input,
    type=INVALID_TOKEN_TYPE,
    channel=DEFAULT_CHANNEL,
    start=<label>Start<elementIndex>,
    stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">)
<endif>
>>

```

```

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>

```

```

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
<label>StartLine<elementIndex> = self.getLine()

```

```

<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
self.match(EOF)
<label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
self.match(EOF)
<endif>
>>

// used for left-recursive rules
recRuleDefArg()          ::= "<recRuleArg()>"
recRuleArg()            ::= "_p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> |<= <opPrec>"
recRuleSetResultAction() ::= "root_0 = $<ruleName>_primary.tree"
recRuleSetReturnAction(src, name)    ::= "$<name> = $<src>.<name>"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)

<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(pred, description)>):
<ruleBacktrackFailure()>
raise FailedPredicateException(self.input, "<ruleName>", "<description>")

>>

// F i x e d D F A (if-then-else)

```

```

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n">
else:
<if(eotPredictsAlt)>
  alt<decisionNumber> = <eotPredictsAlt>
<else>
  <ruleBacktrackFailure()>
  nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
  <@noViableAltException()>
  raise nvae<\n>
<endif>
>>

```

```

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */

```

```

dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n">
>>

```

```

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

```

```

dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else:
  alt<decisionNumber> = <eotPredictsAlt>
<\n>
<endif>
<endif>
>>

```

```

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

```

```

/** A simple edge with an expression. If the expression is satisfied,

```

```

* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
    <targetState>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<!
    FIXME: this is one of the few occasion, where I miss a switch statement
    in Python. ATM this is implemented as a list of if .. elif ..
    This may be replaced by faster a dictionary lookup, when I find a solution
    for the cases when an edge is not a plain dfaAcceptState.
!>
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
else:
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
<else>
    <ruleBacktrackFailure()>
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
    <@noViableAltException()>
    raise nvae<\n>
<endif>

>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
<if(eotPredictsAlt)>
else:
    alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
if <labels:{it | LA<decisionNumber> == <it>}; separator=" or ">:
    <targetState>
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>_eot = DFA.unpack(
    u"<dfa.javaCompressedEOT; wrap="\n  u\"">"
)

DFA<dfa.decisionNumber>_eof = DFA.unpack(
    u"<dfa.javaCompressedEOF; wrap="\n  u\"">"
)

DFA<dfa.decisionNumber>_min = DFA.unpack(
    u"<dfa.javaCompressedMin; wrap="\n  u\"">"
)

DFA<dfa.decisionNumber>_max = DFA.unpack(
    u"<dfa.javaCompressedMax; wrap="\n  u\"">"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack(
    u"<dfa.javaCompressedAccept; wrap="\n  u\"">"
)

DFA<dfa.decisionNumber>_special = DFA.unpack(
    u"<dfa.javaCompressedSpecial; wrap="\n  u\"">"

```

```

)

DFA<dfa.decisionNumber>_transition = [
  <dfa.javaCompressedTransition:{s|DFA.unpack(u"<s; wrap="\nu\ "">)}; separator=",\n">
]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
  pass

  <@errorMethod()>

  <if(dfa.specialStateSTs)>
  def specialStateTransition(self_, s, input):
    # convince pylint that my self_ magic is ok ;)
    # pylint: disable-msg=E0213

    # pretend we are a member of the recognizer
    # thus semantic predicates can be evaluated
    self = self_.recognizer

    _s = s

    <dfa.specialStateSTs:{state | if s == <i0>: <! compressed special state numbers 0..n-1 !>
    <state>}; separator="\nel">

  <if(backtracking)>
    if self._state.backtracking > 0:
      raise BacktrackingFailed

  <endif>
    nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
    self_.error(nvae)
    raise nvae<\n>
  <endif>

  >>

  cyclicDFAInit(dfa) ::= <<
  self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
    self, <dfa.decisionNumber>,
    eot = self.DFA<dfa.decisionNumber>_eot,
    eof = self.DFA<dfa.decisionNumber>_eof,
    min = self.DFA<dfa.decisionNumber>_min,
    max = self.DFA<dfa.decisionNumber>_max,
    accept = self.DFA<dfa.decisionNumber>_accept,

```

```

    special = self.DFA<dfa.decisionNumber>_special,
    transition = self.DFA<dfa.decisionNumber>_transition
  )<\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = input.LA(1)<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = input.index()
input.rewind()<\n>
<endif>
s = -1
<edges; separator="\n">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)<\n>
<endif>
if s >= 0:
    return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
    s = <targetStateNumber><\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
se:
    s = <targetStateNumber><\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "<operands; separator=\" or \">"

notPredicate(pred) ::= "not (<evalPredicate(pred, { })>)"

```

```

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "self.<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(<lower> \<= LA<decisionNumber>_<stateNumber> \<= <upper>)
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "<lower> \<=
self.input.LA(<k>) \<= <upper>"

setTest(ranges) ::= "<ranges; separator=\\\" or \\\">"

// A T T R I B U T E S

globalAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

<endif>
<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

```

```

<endif>
<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
<endif>
>>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>

returnStructName(r) ::= "<r.name>_return"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName()>( <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
  def __init__(self):
    super(<grammar.recognizerName>.<ruleDescriptor:returnStructName()>, self).__init__()

    <if(scope)><scope.attributes: {it | self.<it.decl> = None }; separator="\n"><endif>
    <@ruleReturnInit()>

    <@ruleReturnMembers()>

<endif>
>>

parameterScope(scope) ::= <<
<if(scope)><scope.attributes: {it | <it.decl> }; separator=", "><endif>
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

```

```

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
self.<scope>_stack[-<negIndex>].<attr.name>
<else>
<if(index)>
self.<scope>_stack[<index>].<attr.name>
<else>
self.<scope>_stack[-1].<attr.name>
<endif>
<endif>
%>

```

/\* not applying patch because of bug in action parser!

```

<if(negIndex)>
((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None])[0]
<else>
<if(index)>
((<index> \< len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None])[0]
<else>
((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None])[0]
<endif>
<endif>

```

\*/

```

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
<!--FIXME: this seems not to be used by ActionTranslator...!-->
self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
<else>
<if(index)>
<!--FIXME: this seems not to be used by ActionTranslator...!-->
self.<scope>_stack[<index>].<attr.name> = <expr>
<else>
self.<scope>_stack[-1].<attr.name> = <expr>
<endif>
<endif>
%>

```

```

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}?
*/

```

```

isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

```

```

/** reference an attribute of rule; might only have single return value */

```

```

ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
<else>
<scope>
<endif>
%>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>
<else>
<attr.name> = <expr>
<endif>
%>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
((<scope> is not None) and [self.input.getTokenStream().toString(

```

```

    self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
    self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start)
  ]) or [None]][0]
<else>
((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)] or [None]][0]
<endif>
%>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None]][0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or [0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [<scope>.text] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>

```

```

if <actions.(actionScope).synpredgate>:
    pass
    <action>

<else>
if <actions.(actionScope).synpredgate>:
    pass
    <action>

<endif>
<else>
#action start
<action>
#action end
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

codeFileExtension() ::= ".py"

true_value() ::= "True"
false_value() ::= "False"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python/Python.stg
No license file was found, but licenses were detected in source scan.

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```

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\*/

/\*\* Template subgroup to add template rewrite output

\* If debugging, then you'll also get STDbg.stg loaded.

\*/

```
@returnScopeInterface.memVars() ::= <<
```

```
<@super.memVars()>
```

```
/* ST returnInterface.memVars */
```

```
ST *st;
```

```
>>
```

```
@returnScopeInterface.properties() ::= <<
```

```
<@super.properties()>
```

```
/* ST returnScope.properties */
```

```
@property (retain, getter=getST, setter=setST:) ST *st;
```

```
>>
```

```
@returnScopeInterface.methodsDecl() ::= <<
```

```
<@super.methodsDecl()>
```

```
/* ST AST returnScopeInterface.methodsDecl */
```

```
- (id) getTemplate;
```

```
- (NSString *) toString;
```

```
- (NSString *) description;
```

```
>>
```

```
@returnScopeInterface() ::= <<
```

```
/* ST returnScopeInterface */
```

```
@interface <returnScopeInterface.name> : ReturnScope {
```

```
<returnScopeInterface.memVars()>
```

```
}
```

```
<returnScopeInterface.properties()>
```

```
<returnScopeInterface.methods()>
```

```
@end
```

```
>>
```

```
@returnScopeImplementation.synthesize() ::= <<
```

```

<@super.synthesize()>
/* ST returnScope.synthesize */
@synthesize st;
>>

@returnScopeImplementation.methods() ::= <<
<@super.methods()>
/* ST returnScope.methods */
- (id) getTemplate { return st; }
- (NSString *) toString { return st==nil?nil:[st toString]; }
- (NSString *) description { [self toString]; }
>>

@returnScopeImplementation() ::= <<
@implementation <returnScopeImplementation.name>
<returnScopeImplementation.synthesize()>

<returnScopeImplementation.methods()>
@end
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturnMembers() ::= <<
<@super.ruleReturnMembers()>
/* ST returnScope.ruleReturnMembers -- empty */
>>

@genericParserHeaderFile.memVars() ::= <<
<@super.memVars()>
/* ST genericParserHeaderFile.memVars -- empty now */
STGroup *templateLib; /* ST -- really a part of STAttrMap */
>>

@genericParserHeaderFile.properties() ::= <<
<@super.properties()>
/* ST genericParser.properties */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
>>

@genericParserHeaderFile.methodsDecl() ::= <<
<@super.methodsDecl()>
/* ST genericParser.methodsDecl */
- init;
- (STGroup *) getTemplateLib;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
@end
>>

```

```

@genericParser.synthesize() ::= <<
<@super.synthesize()>
/* ST genericParserImplementation.synthesize */
@synthesize templateLib;
>>

@genericParser.methods() ::= <<
<@super.methods()>
/* ST genericParser.methods */

- (STGroup *)getTemplateLib
{
    return templateLib;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib
{
    templateLib = aTemplateLib;
}

>>

@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup:@"<name>Templates"];

- (STGroup *) getTemplateLib
{
    return templateLib;
}

- (void) setTemplateLib:(STGroup *) templateLib
{
    this.templateLib = templateLib;
}

/** allows convenient multi-value initialization:
 * "new STAttrMap().put(...).put(...)"
 */
/* REPLACE THIS STATIC CLASS
static class STAttrMap extends HashMap {
- (STAttrMap *) setObject:(id)aValue forKey:(NS*)String attrName
{
    [super setObject:value forKey:attrName];
    return self;
}
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName
{

```

```

    [super setObject:[NSNumber numberWithInt:value] forKey:attrName];
    return self;
}
}
*/
>>

@STAttrMap() ::= <<
/* ----- ST start STAttrMap ----- */
<@STAttrMap.interface()>
<@STAttrMap.implementation()>
/* ----- ST end STAttrMap ----- */
>>

@STAttrMap.interface() ::= <<
/* ----- ST start STAttrMap.interface ----- */
@interface STAttrMap : HashMap {
/* <@STAttrMap.memVars()> */
    STGroup *templateLib;
}

/* <@STAttrMap.properties()> */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/* <@STAttrMap.methodsDecl()> */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;
@end
/* ----- ST end STAttrMap.interface ----- */
>>

@STAttrMap.implementation() ::= <<
/* ----- ST start STAttrMap.implementation ----- */
/** allows convenient multi-value initialization:
 * "new STAttrMap().put(...).put(...)"
 */
@implementation STAttrMap
@synthesize templateLib;

<@STAttrMap.methods()>
@end
/* ----- ST end STAttrMap.implementation ----- */
>>

@STAttrMap.memVars() ::= <<
/* ----- ST start STAttrMap.memVars ----- */

```

```

    STGroup *templateLib;
/* ----- ST end STAttrMap.memVars ----- */
>>

@STAttrMap.properties() ::= <<
/* ----- ST start STAttrMap.properties ----- */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;
/* ----- ST end STAttrMap.properties ----- */
>>

@STAttrMap.methodsDecl() ::= <<
/* ----- ST start STAttrMap.methodsDecl ----- */
- (id) init;
- (STAttrMap *) setObject:(id)value forKey:(NSString *)attrName;
- (STAttrMap *) setObjectWithInt:(NSInteger)value forKey:(NSString *)attrName;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
- (STGroup *) getTemplateLib;
/* ----- ST end STAttrMap.methodsDecl ----- */
>>

@STAttrMap.methods() ::= <<
/* ----- ST start STAttrMap.methods ----- */
- (id) init
{
    self = [super initWithLen:16];
    if ( self != nil ) {
        templateLib = [STGroup newSTGroup:"<name>Templates"];
    }
    return self;
}

- (STAttrMap *) setObject:(id)aValue forKey:(NSString *)aAttrName
{
    [super setObject:aValue forKey:aAttrName];
    return self;
}

- (STAttrMap *) setObjectWithInt:(NSInteger)aValue forKey:(NSString *)aAttrName
{
    [super setObject:[NSNumber numberWithInt:aValue] forKey:aAttrName];
    return self;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib
{
    templateLib = aTemplateLib;
}

- (STGroup *)getTemplateLib

```

```

{
    return templateLib;
}
/* ----- ST end STAttrMap.methods ----- */
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ST ruleRefAndListLable */
<ruleRef(...)>
<listLabel(elem=[label getTemplate,...]>
>>

rewriteTemplate(alts) ::= <<
/* ----- ST start rewriteTemplate ----- */
// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
/* ----- ST end rewriteTemplate ----- */
>>

replaceTextInLine() ::= <<
/* ----- ST start replaceTextInLine ----- */
<if(TREE_PARSER)>
[[ (TokenRewriteStream *)input getTokenStream]
    replaceFromIndex:[ [input getTreeAdaptor] getTokenStartIndex:retval.start]
        ToIndex:[ [input getTreeAdaptor] getTokenStopIndex:retval.start]
        Text:retval.st];
<else>
[[ (TokenRewriteStream *)input]
    replaceFromIndex:[ ((CommonToken *)retval.start) getTokenIndex]
        ToIndex:[ [input LT:-1] getTokenIndex]
        Text:retval.st];
<endif>
/* ----- ST end replaceTextInLine ----- */
>>

rewriteTemplateAlt() ::= <<
/* ----- ST start rewriteTemplateAlt ----- */
/* ST <it.description> */
<if(it.pred)>

```

```

if (<it.pred>) {
    retval.st = <it.alt>;
}<\n>
<else>
{
    retval.st = <it.alt>;
}<\n>
<endif>
/* ----- ST end rewriteTemplateAlt ----- */
>>

rewriteEmptyTemplate(alts) ::= <<
nil;
>>

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template after having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name,args) ::= <<
/* ----- ST start rewriteExternalTemplate ----- */
[templateLib getInstanceOf:@"<name>"
<if(args)>[[STAttrMap newSTAttrMap] <args:{a | setObject:<a.value> forKey:@"<a.name>"}><endif>]
/* ----- ST end rewriteExternalTemplate ----- */
>>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <<
/* ----- ST start rewriteIndirectTemplate ----- */
[templateLib getInstanceOf:<expr>
<if(args)> [[STAttrMap newSTAttrMap]<args:{a | setObject:<a.value> forKey:@"<a.name>"}>]
<else>]<endif>
/* ----- ST end rewriteIndirectTemplate ----- */
>>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <<
/* ----- ST start rewriteInlineTemplate ----- */
STGroup *templateLib;
templateLib.templates = [STAttrMap newSTAttrMap];
<if(args)> [templateLib.templates <args:{a | setObject:<a.value> forKey:@"<a.name>"}>]<endif>
[ST newST:templateLib template:@"<template>"];
/* ----- ST end rewriteInlineTemplate ----- */
>>

/** plain -> {foo} action */

```

```

rewriteAction(action) ::= <<
/* ----- ST start rewriteAction ----- */
<action>
/* ----- ST end rewriteAction ----- */
>>

```

```

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
/* ----- ST start actionSetAttribute ----- */
[[ST attributes] setObject:<expr> forKey:@ "<attrName>"];
<![<st> setAttribute:<expr> name:@ "<attrName>"];!>
/* ----- ST end actionSetAttribute ----- */
>>

```

```

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<
/* ----- ST start actionStringConstructor ----- */
[ST newSTWithTemplate:<stringExpr>]
/* ----- ST end actionStringConstructor ----- */
>>

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ST.stg  
No license file was found, but licenses were detected in source scan.

```

/*
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```

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\*/

/\*\* Template overrides to add debugging to AST stuff. Dynamic inheritance

\* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.

\*/

```
parserMembers() ::= <<
protected DebugTreeAdaptor adaptor =
    new DebugTreeAdaptor(null,new CommonTreeAdaptor());
public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
}
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}<\n>
>>
```

```
parserCtorBody() ::= <<
```

```
>>
```

```
createListenerAndHandshake() ::= <<
```

```
<super.createListenerAndHandshake(>
```

```
>>
```

```
ctorForPredefinedListener() ::= <<
```

```
>>
```

```
@rewriteElement.pregen() ::= ""
```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/ASTDbg.stg

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/\*

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\*/

group AST;

```
@outputFile.imports() ::= <<
<@super.imports()><if(!TREE_PARSER)><! tree parser would already have imported !>
Antlr.Runtime.Tree,<\n><endif>
>>
```

```
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>
```

```
@genericParser.membersConstructor() ::= <<
<@super.membersConstructor()>
<parserMembersConstructor()>
>>
```

```
@genericParser.membersImplementation() ::= <<
<@super.membersImplementation()>
<parserMembersImplementation()>
>>
```

/\*\* Add an adaptor property that knows how to build trees \*/

```
parserMembers() ::= <<
strict protected
FAdaptor: ITreeAdaptor;
procedure SetAdaptor(const Value: ITreeAdaptor);
property Adaptor: ITreeAdaptor read FAdaptor;
```

```

public
  property TreeAdaptor: ITreeAdaptor read FAdaptor write SetAdaptor;

>>

parserMembersConstructor() ::= <<
  FAdaptor := TCommonTreeAdaptor.Create;
>>

parserMembersImplementation() ::= <<
  procedure T<grammar.recognizerName>.SetAdaptor(const Value: ITreeAdaptor);
  begin
    FAdaptor := Value;
    <grammar.directDelegates: {g|<g.delegateName()>.TreeAdaptor := FAdaptor;}>
  end;
>>

@returnScope.ruleReturnMembers() ::= <<
  function T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.GetTree: IANTLRInterface;
  begin
    Result := FTree;
  end;

  procedure T<grammar.recognizerName>.T<ruleDescriptor:returnStructName()>.SetTree(const Value:
  IANTLRInterface);
  begin
    FTree := Value as I<ASTLabelType>;
  end;
>>

@returnScopeDeclaration.ruleReturnMembers() ::= <<
  strict private
    FTree: I<ASTLabelType>;
  protected
    { IRuleReturnScope }
    function GetTree: IANTLRInterface; override;
    procedure SetTree(const Value: IANTLRInterface); override;
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
  <super.ruleDeclarations()>
  Root[0] := nil;<\n>
>>

ruleDeclarationVars() ::= <<
  <super.ruleDeclarationVars()>
  Root: array [0..63] of I<ASTLabelType>;

```

>>

```
ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree := nil;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites:{Locals['Stream_<it>'] :=
TRewriteRule<rewriteElementType>Stream.Create(Adaptor,'token <it>');}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites:{Locals['Stream_<it>'] :=
TRewriteRuleSubtreeStream.Create(Adaptor,'rule <it>');}; separator="\n">
>>
```

```
ruleLabelDefVars() ::= <<
<super.ruleLabelDefVars()>
<ruleDescriptor.tokenLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
<ruleDescriptor.tokenListLabels:{<it.label.text>_tree: I<ASTLabelType>;}; separator="\n">
>>
```

```
/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
```

```
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<endif>
<endif>
<endif>
>>
```

// Tracking Rule Elements

```
/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as
IRewriteRuleElementStream).Add(<label>);<\n>
>>
```

```
/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>
```

```

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<token>'] as
IRewriteRuleElementStream).Add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule.name>'] as
IRewriteRuleElementStream).Add(<label>.Tree);<\n>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>(Locals['Stream_<rule>'] as
IRewriteRuleElementStream).Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".Tree",...)>
>>

// R e w r i t e

rewriteCode(
  alts, description,

```

```

referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements:    <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels:  <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
<prevRuleRootRef().Tree := Root[0];
<rewriteCodeLabels(>
Root[0] := Adaptor.GetNilNode as I<ASTLabelType>;
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef().Tree = (<ASTLabelType>)adaptor.rulePostProcessing(root[0]);
input.ReplaceChildren(adaptor.GetParent(retval.Start),
  adaptor.GetChildIndex(retval.Start),
  adaptor.GetChildIndex(_last),
  retval.Tree);
<endif>
<endif>
<! if parser or rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef().Tree := Root[0];<\n>
<endif>
<if(!rewriteMode)>
<prevRuleRootRef().Tree := Root[0];<\n>
<endif>
<if(backtracking)>
end;
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels

```

```

: {Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', <it>);
separator="\n"
>
<referencedTokenListLabels
: {Locals['Stream_<it>'] := TRewriteRule<rewriteElementType>Stream.Create(Adaptor, 'token <it>', list_<it>);
separator="\n"
>
<referencedRuleLabels: {
if Assigned(<it>) then
Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', <it>.Tree)
else
Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', nil); separator="\n">
<referencedRuleListLabels
: {Locals['Stream_<it>'] := TRewriteRuleSubtreeStream.Create(Adaptor, 'token <it>', list_<it>);
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
* list rather shallow like other blocks.
*/
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
(* <fileName>:<description> *)
if (<referencedElementsDeep: {el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator="
or ">) then
begin
<alt>
end;
<referencedElementsDeep: {el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset;<n>}>
>>

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
(* <fileName>:<description> *)
while (<referencedElements: {el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator="
or
">) do
begin
<alt>
end;

```

```

<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<n>}>
>>

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements,    // elements in immediately block; no nested blocks
  description) ::=
<<
if (not (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">)) then
  raise ERewriteEarlyExitException.Create("");

while (<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).HasNext}; separator=" or
">) do
begin
  <alt>
end;
<referencedElements:{el | (Locals['Stream_<el>'] as IRewriteRuleElementStream).Reset();<n>}>
>>

rewriteAlt(a) ::= <<
(* <a.description> *)
<if(a.pred)>
if (<a.pred>) then
begin
  <a.alt>
end<n>
<else>
begin
  <a.alt>
end;<n>
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "Root[0] = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
(* <fileName>:<description> *)
begin
  Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;
  <root:rewriteElement()>
  <children:rewriteElement()>
  Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
end;<n>
>>

```

```

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as
IRewriteRuleElementStream).NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as
IRewriteRuleElementStream).NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as
IRewriteRuleElementStream).NextNode(), Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>, Root[<treeLevel>]) as
I<ASTLabelType>;<\n>
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>, Root[<treeLevel>]) as
I<ASTLabelType>;<\n>
>>

/** plain -> {foo} action */

```

```

rewriteAction(action) ::= <<
Root[0] = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
 * let's us refer to $rule to mean previous value. I am reusing the
 * variable 'tree' sitting in retval struct to hold the value of Root[0] right
 * before I set it during rewrites. The assign will be to retval.Tree.
 */
prevRuleRootRef() ::= "RetVal"

rewriteRuleRef(rule) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<rule>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

rewriteNodeAction(action) ::= <<
Adaptor.AddChild(Root[<treeLevel>], <action>;<\n>
>>

rewriteNodeActionRoot(action) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot(<action>, Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
Adaptor.AddChild(Root[<treeLevel>], (Locals['Stream_<label>'] as IRewriteRuleElementStream).NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
Root[<treeLevel>] := Adaptor.BecomeRoot((Locals['Stream_<label>'] as IRewriteRuleElementStream).NextNode,
Root[<treeLevel>]) as I<ASTLabelType>;<\n>
>>

```

>>

```
createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
T<terminalOptions.node>.Create(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
Adaptor.CreateNode(<tokenType>, <args; separator=", "><if(!args)>'<tokenType>'<endif>) as I<ASTLabelType>
<endif>
>>
```

```
createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextToken<if(args)>,
<args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
Adaptor.Create(<token>, <args; separator=", ">)
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
<endif>
>>
```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Delphi/AST.stg

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*/

```

```

/** Templates for building ASTs during normal parsing.

```

```

*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/

```

```

@rule.setErrorReturnValue() ::= <<
retval.Tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

```

```

// TOKEN AST STUFF

```

```

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (state.backtracking == 0) {<endif>
<label>_tree = <createNodeFromToken(...)>;
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

```

```

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

```

```

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = <createNodeFromToken(...)>;

```

```

root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)><endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(postmatchCode={<if(backtracking)>if (<actions.(actionScope).synpredgate>)
<endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);}, ...)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,terminalOptions,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

```

```

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);
<endif>
<super.matchSet(postmatchCode={ <if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);}, ...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= <<

```

```

<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
>>

```

```
wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"
```

```

wildcardRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.wildcard(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>
>>

```

```

createNodeFromToken(label,terminalOptions) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node><(if(terminalOptions.type))<terminalOptions.type>,<endif><label><(if(terminalOptions.text))>,<terminalOptions.text; format="string"><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<(if(terminalOptions.type))<terminalOptions.type>,<endif><label><(if(terminalOptions.text))>,<terminalOptions.text; format="string"><endif>)
<endif>
%>

```

```

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.Tree, retval.Start, retval.Stop);
<if(backtracking)>}<endif>
>>

```

Found in path(s):

```
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```

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 \*/

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\*/

/\*\* Template overrides to add debugging to AST stuff. Dynamic inheritance

\* hierarchy is set up as ASTDbg : AST : Dbg : Python by code generator.

\*/

group ASTDbg;

astAccessor() ::= <<

def setTreeAdaptor(self, adaptor):

<if(grammar.grammarIsRoot)>

self.\_adaptor = DebugTreeAdaptor(self.dbg, adaptor)

<else>

self.\_adaptor = adaptor # delegator sends dbg adaptor

<endif>

<grammar.directDelegates:{g|<g.delegateName()>.setTreeAdaptor(self.\_adaptor)}>

def getTreeAdaptor(self):

return self.\_adaptor

adaptor = property(getTreeAdaptor, setTreeAdaptor)<\n>

>>

createListenerAndHandshake() ::= <<

proxy = DebugEventSocketProxy(self,

adaptor=<if(TREE\_PARSER)>self.input.getTreeAdaptor(<else>self.\_adaptor<endif>,

debug=debug\_socket, port=port)

self.setDebugListener(proxy)

self.adaptor.setDebugListener(proxy)

self.input.setDebugListener(proxy)

#self.set<inputStreamType>(Debug<inputStreamType>(self.input, proxy))

proxy.handshake()

>>

@rewriteElement.pregen() ::= "self.\_dbg.location(<e.line>, <e.pos>)"

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-

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\*/

```
@outputFile.imports() ::= <<
<@super.imports(>
<if(!TREE_PARSER)><! tree parser would already have imported !>
import org.antlr.runtime.tree.*;<\n>
<endif>
>>
```

```
@genericParser.members() ::= <<
<@super.members(>
<parserMembers(>
>>
```

```
/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
protected TreeAdaptor adaptor = new CommonTreeAdaptor();
```

```
public void setTreeAdaptor(TreeAdaptor adaptor) {
    this.adaptor = adaptor;
    <grammar.directDelegates: {g|<g:delegateName(>}.setTreeAdaptor(this.adaptor);}>
}
public TreeAdaptor getTreeAdaptor() {
    return adaptor;
}
>>
```

```

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
@Override
public <ASTLabelType> getTree() { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<if(!ruleDescriptor.isSynPred)>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> <it.label.text>_tree=null;}; separator="\n">
<if(ruleDescriptor.supportsLabelOptimization)>
<ruleDescriptor.allTokenRefsInRewrites
:{it | RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInRewrites
:{it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
<else>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
:{it | RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
:{it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
<endif>
<endif>
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode && !ruleDescriptor.isSynPred)>
root_0 = (<ASTLabelType>)adaptor.nil();<\n>
<endif>

```

```

<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label, ...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label, ...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(label, {<label>.getTree()})>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());

```

>>

```
/** ^(x+=rule ...) rewrite */  
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<  
<ruleRefRuleRootTrack(...)>  
<listLabel(label, {<label>.getTree()})>  
>>
```

// R e w r i t e

```
rewriteCode(  
  alts, description,  
  referencedElementsDeep, // ALL referenced elements to right of ->  
  referencedTokenLabels,  
  referencedTokenListLabels,  
  referencedRuleLabels,  
  referencedRuleListLabels,  
  referencedWildcardLabels,  
  referencedWildcardListLabels,  
  rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=  
<<
```

// AST REWRITE

```
// elements: <referencedElementsDeep; separator=", ">  
// token labels: <referencedTokenLabels; separator=", ">  
// rule labels: <referencedRuleLabels; separator=", ">  
// token list labels: <referencedTokenListLabels; separator=", ">  
// rule list labels: <referencedRuleListLabels; separator=", ">  
// wildcard labels: <[referencedWildcardLabels, referencedWildcardListLabels]; separator=", ">  
<if(backtracking)>  
if ( <actions.(actionScope).synpredgate> ) {  
<endif>  
<prevRuleRootRef().tree = root_0;  
<rewriteCodeLabels()>  
root_0 = (<ASTLabelType>)adaptor.nil();  
<alts:rewriteAlt(); separator="else ">  
<! if tree parser and rewrite=true !>  
<if(TREE_PARSER)>  
<if(rewriteMode)>  
<prevRuleRootRef().tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);  
input.replaceChildren(adaptor.getParent(retval.start),  
  adaptor.getChildIndex(retval.start),  
  adaptor.getChildIndex(_last),  
  retval.tree);  
<endif>  
<endif>  
<! if parser or tree-parser && rewrite!=true, we need to set result !>  
<if(!TREE_PARSER)>
```

```

<prevRuleRootRef(>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
:{it | RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
:{it | RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
separator="\n"
>
<referencedWildcardLabels
:{it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
separator="\n"
>
<referencedWildcardListLabels
:{it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>)};
separator="\n"
>
<referencedRuleLabels
:{it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.getTree():null)};
separator="\n"
>
<referencedRuleListLabels
:{it | RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it> ",list_<it>)};
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks

```

```

description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewriteClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewritePositiveClosureBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
if ( !( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) ) {
  throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>

```

>>

```
/** For empty rewrites: "r : ... -> ;" */  
rewriteEmptyAlt() ::= "root_0 = null;"
```

```
rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<  
// <fileName>:<description>  
{  
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();  
<root:rewriteElement()>  
<children:rewriteElement()>  
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);  
}<\n>  
>>
```

```
rewriteElementList(elements) ::= "<elements:rewriteElement()>"
```

```
rewriteElement(e) ::= <<  
<@pregen()>  
<e.el>  
>>
```

```
/** Gen ID or ID[args] */  
rewriteTokenRef(token,elementIndex,args,terminalOptions={}) ::= <<  
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);  
>>
```

```
/** Gen $label ... where defined via label=ID */  
rewriteTokenLabelRef(label,elementIndex) ::= <<  
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());  
>>
```

```
/** Gen $label ... where defined via label+=ID */  
rewriteTokenListLabelRef(label,elementIndex) ::= <<  
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());  
>>
```

```
/** Gen ^($label ...) */  
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);  
>>
```

```
/** Gen ^($label ...) where label+=... */  
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot
```

```
/** Gen ^(ID ...) or ^(ID[args] ...) */  
rewriteTokenRefRoot(token,elementIndex,args,terminalOptions={}) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,  

```

```

root_<treeLevel>);
>>

rewriteImaginaryTokenRef(args,token,elementIndex,terminalOptions={}) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(token,args,terminalOptions)>);
>>

rewriteImaginaryTokenRefRoot(args,token,elementIndex,terminalOptions={}) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<createImaginaryNode(token,args,terminalOptions)>,
root_<treeLevel>);
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;
>>

/** What is the name of the previous value of this rule's root tree? This
 * let's us refer to $rule to mean previous value. I am reusing the
 * variable 'tree' sitting in retval struct to hold the value of root_0 right
 * before I set it during rewrites. The assign will be to retval.tree.
 */
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<action>, root_<treeLevel>);
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());

```

>>

```
/** Gen ^($ruleLabel ...) where ruleLabel=rule */  
rewriteRuleLabelRefRoot(label) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);  
>>
```

```
/** Gen ^($ruleLabel ...) where ruleLabel+=rule */  
rewriteRuleListLabelRefRoot(label) ::= <<  
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);  
>>
```

```
rewriteWildcardLabelRef(label) ::= <<  
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());  
>>
```

```
createImaginaryNode(tokenType,args,terminalOptions={ }) ::= <%  
<if(terminalOptions.node)>  
<! new MethodNode(IDLabel, args) !>  
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=", "><endif>)  
<else>  
(<ASTLabelType>)adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)  
<endif>  
>%
```

```
createRewriteNodeFromElement(token,args,terminalOptions={ }) ::= <%  
<if(terminalOptions.node)>  
new <terminalOptions.node>(stream_<token>.nextToken(<if(args)>, <args; separator=", "><endif>)  
<else>  
<if(args)> <! must create new node from old !>  
adaptor.create(<token>, <args; separator=", ">)  
<else>  
stream_<token>.nextNode()  
<endif>  
<endif>  
>%
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/AST.stg  
No license file was found, but licenses were detected in source scan.
```

/\*

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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 an atomic type
]
```

```
// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
```

```
booleanLiteral ::= [
  "True": "true",
  "False": "false",
  "true": "true",
  "false": "false",
  default: "false"
]
```

```
/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
```

```

        docComment, recognizer,
        name, tokens, tokenNames, rules, cyclicDFAs,
        bitsets, buildTemplate, buildAST, rewriteMode, profile,
        backtracking, synpreds, memoize, numRules,
        fileName, ANTLRVersion, generatedTimestamp, trace,
        scopes, superClass, literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
<actions.(actionScope).header>

<@imports>
import org antlr.runtime.*;
<if(TREE_PARSER)>
import org antlr.runtime.tree.*;
<endif>
import java.util.Stack;
import java.util.List;
import java.util.ArrayList;
<if(backtracking)>
import java.util.Map;
import java.util.HashMap;
<endif>
<@end>

<docComment>
@SuppressWarnings("all")
<recognizer>

>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
    superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><@end> {
    <tokens:{it | public static final int <it.name>=<it.type>;}; separator="\n">
    <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}>
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    // delegators
    <grammar.delegators:
    {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>
    public <superClass>[] getDelegates() {
        return new <superClass>[] {<grammar.delegates: {g|<g.delegateName()>;}; separator = ", ">}
    }
}

```

```

public <grammar.recognizerName>() {} <! needed by subclasses !>
public <grammar.recognizerName>(CharStream input<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>>}) {
    this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>>});
}
public <grammar.recognizerName>(CharStream input, RecognizerSharedState state<grammar.delegators:{g|,
<g.recognizerName> <g.delegateName()>>}) {
    super(input,state);
<if(memoize)>
<if(grammar.grammarIsRoot)>
    state.ruleMemo = new HashMap[<numRules>+1];<\n><! index from 1..n !>
<endif>
<endif>
    <grammar.directDelegates:
        {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p.delegateName()>}>,
this);}; separator="\n">
    <grammar.delegators:
        {g|this.<g.delegateName()> = <g.delegateName()>}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g.delegateName()>};>
}
    @Override public String getGrammarFileName() { return "<fileName>"; }

<if(filterMode)>
    <filteringNextToken()>
<endif>
    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>

    <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
DFA<dfa.decisionNumber>(this);}; separator="\n">
    <cyclicDFAs:cyclicDFA(); separator="\n\n"><! dump tables for all DFA !>

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
@Override
public Token nextToken() {
    while (true) {
        if ( input.LA(1)==CharStream.EOF ) {
            Token eof = new CommonToken(input,Token.EOF,

```

```

        Token.DEFAULT_CHANNEL,
        input.index(),input.index());
eof.setLine(getLine());
eof.setCharPositionInLine(getCharPositionInLine());
return eof;
}
state.token = null;
state.channel = Token.DEFAULT_CHANNEL;
state.tokenStartCharIndex = input.index();
state.tokenStartCharPositionInLine = input.getCharPositionInLine();
state.tokenStartLine = input.getLine();
state.text = null;
try {
    int m = input.mark();
    state.backtracking=1; <! means we won't throw slow exception !>
    state.failed=false;
    mTokens();
    state.backtracking=0;
    <! mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1. !>
    if ( state.failed ) {
        input.rewind(m);
        input.consume(); <! advance one char and try again !>
    }
    else {
        emit();
        return state.token;
    }
}
catch (RecognitionException re) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
}
}

@Override
public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

@Override
public boolean alreadyParsedRule(IntStream input, int ruleIndex) {
    if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
}

```

```

return false;
}
>>

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="Object") ::= <<
public class <grammar.recognizerName> extends <@superClassName><superClass><&end> {
<if(grammar.grammarIsRoot)>
    public static final String[] tokenNames = new String[] {
        "<invalid>", "<EOR>", "<DOWN>", "<UP>", <tokenNames; separator=", ", wrap="\n\t">
    };
<endif>
    <tokens:{it |public static final int <it.name>=<it.type>;}; separator="\n">

    // delegates
    <grammar.delegates: {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    public <superClass>[] getDelegates() {
        return new <superClass>[] {<grammar.delegates: {g|<g.delegateName()>;}; separator=" ", ">">
    }

    // delegators
    <grammar.delegators:
        {g|public <g.recognizerName> <g.delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

    <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}>

    <@members>
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
    public <grammar.recognizerName><(inputStreamType> input<grammar.delegators:{g|, <g.recognizerName>
    <g.delegateName()>}>> {
        this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}>);
    }
    public <grammar.recognizerName><(inputStreamType> input, RecognizerSharedState
    state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>> {
        super(input, state);
        <parserCtorBody()>
        <grammar.directDelegates:
            {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|, <p.delegateName()>}>,
            this);}; separator="\n">
        <grammar.indirectDelegates: {g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>;};

```

```

separator="\n">
  <last(grammar.delegators):{g|gParent = <g:delegateName(>};}>
  }
<@end>

@Override public String[] getTokenNames() { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; }
@Override public String getGrammarFileName() { return "<fileName>"; }

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
  appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
  public <returnType(ruleDescriptor)> <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(>)
  throws <ruleDescriptor.throwsSpec; separator=", "> { <if(ruleDescriptor.hasReturnValue)>return
  <endif><ruleDescriptor.grammar:delegateName(>.<ruleDescriptor.name>(<if(ruleDescriptor.parameterScope)><ru
  leDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", "><endif>); \}}; separator="\n">

  <synpreds:{p | <synpred(p)>}>

  <cyclicDFAs:{dfa | protected DFA<dfa.decisionNumber> dfa<dfa.decisionNumber> = new
  DFA<dfa.decisionNumber>(this);}; separator="\n">
  <cyclicDFAs:cyclicDFA(); separator="\n\n"><! dump tables for all DFA !>

  <bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
  words64=it.bits)>}; separator="\n">
  }
  >>

  parserCtorBody() ::= <<
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
  this.state.ruleMemo = new HashMap[<length(grammar.allImportedRules)>+1];<\n><! index from 1..n !>
  <endif>
  <endif>
  <grammar.delegators:
  {g|this.<g:delegateName(> = <g:delegateName(>}; separator="\n">
  >>

  parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="Object", superClass="Parser", labelType="Token",
    members={<actions.parser.members>}) ::= <<
  <genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, "TokenStream", superClass,

```

```

        labelType, members, "Token",
        false, ASTLabelType)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
            numRules, bitsets, filterMode, labelType={ <ASTLabelType> }, ASTLabelType="Object",
superClass={ <if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif> },
members={ <actions.treeparser.members> }
    ) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
                bitsets, "TreeNodeStream", superClass,
                labelType, members, "Node",
                filterMode, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public final void <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(>) throws
<ruleDescriptor.throwsSpec: { x|<x> }; separator=", "> {
    <ruleLabelDefs(>
<if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
        <block>
    }
    finally {
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
<else>
    <block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final boolean <name>() {

```

```

state.backtracking++;
<@start(>
int start = input.mark();
try {
  <name>_fragment(); // can never throw exception
} catch (RecognitionException re) {
  System.err.println("impossible: "+re);
}
boolean success = !state.failed;
input.rewind(start);
<@stop(>
state.backtracking--;
state.failed=false;
return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index> ) ) {
  <returnStatement((( <ruleReturnValue(>)))> }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) <returnStatement((( <ruleReturnValue(>)))><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true;
  <returnStatement((( <ruleReturnValue(>)))>}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>

```

```

<if(isPredefinedRewriteRule.(ruleName) && filterMode && buildAST)>
@Override
<endif>
public final <return Type(ruleDescriptor)> <ruleName>(<ruleDescriptor.parameterScope:parameterScope()>) throws
<ruleDescriptor	throwsSpec:{x|<x>}; separator=", "> {
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
  <@preamble()>
  try {
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.after):execAction()>
  }
  <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
  <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
    <else>
    catch (RecognitionException re) {
      reportError(re);
      recover(input,re);
      <@setErrorReturnValue()>
    }
    <endif>
  <endif>
  <endif>
  <endif>
  finally {
    // do for sure before leaving
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
  }
  <@postamble()>
  <returnStatement((({<ruleReturnValue()>}), false)>
  }
  // $ANTLR end "<ruleName>"
  >>

returnStatement(returnValue, force=true) ::= <%
<if(!isEmptyString.(returnValue))>
return <returnValue>;

```

```

<elseif(force)>
return;
<endif>
%>

catch(decl,action) ::= <<
catch (<e.decl>) {
<e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
retval.start = input.LT(1);
<elseif(ruleDescriptor.returnScope)>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.index();
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes:{it |<it>_stack.push(new <it>_scope());}; separator="\n">
<ruleDescriptor.ruleScope:{it |<it.name>_stack.push(new <it.name>_scope());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes:{it |<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope:{it |<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
:{it |<labelType> <it.label.text>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
:{it |List<Object> list_<it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|RuleReturnScope <ll.label.text> = null;}; separator="\n">
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
:{it |<labelType> <it.label.text>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
:{it |List<Object> list_<it.label.text>=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
public final void m<ruleName>(<ruleDescriptor.parameterScope;parameterScope()) throws RecognitionException
{

```

```

<if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try {
<if(nakedBlock)>
  <ruleMemoization(name=ruleName)>
  <lexerRuleLabelDefs()>
  <ruleDescriptor.actions.init>
  <block>
<else>
  int _type = <ruleName>;
  int _channel = DEFAULT_TOKEN_CHANNEL;
  <ruleMemoization(name=ruleName)>
  <lexerRuleLabelDefs()>
  <ruleDescriptor.actions.init>
  <block>
  <ruleCleanUp()>
  state.type = _type;
  state.channel = _channel;
  <(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally {
  // do for sure before leaving
  <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeCleanUp()>
  <memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */

```

```

tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
@Override
public void mTokens() throws RecognitionException {
  <block>
}
>>

```

```

// S U B R U L E S

```

```

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;

```

```

<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
  <alts:{ a | <altSwitchCase(i,a)>}>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
  <alts:{ a | <altSwitchCase(i,a)>}>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>

```

```

loop<decisionNumber>:
while (true) {
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
<alts:{ a | <altSwitchCase(i,a)>}>
default :
if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
<ruleBacktrackFailure()>
EarlyExitException eee = new EarlyExitException(<decisionNumber>, input);
<@earlyExitException()>
throw eee;
}
cnt<decisionNumber>++;
}
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

```

/** A (.)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
loop<decisionNumber>:
while (true) {
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
<alts:{ a | <altSwitchCase(i,a)>}>
default :
break loop<decisionNumber>;
}
}
<@postloop()>
>>

```

closureBlockSingleAlt ::= closureBlock

```

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/

```

```
optionalBlock ::= block
```

```
optionalBlockSingleAlt ::= block
```

```
/** A case in a switch that jumps to an alternative given the alternative  
 * number. A DFA predicts the alternative and then a simple switch  
 * does the jump to the code that actually matches that alternative.  
 */
```

```
altSwitchCase(altNum,alt) ::= <<  
case <altNum> :  
  <@prealt(>  
  <alt>  
  break;<\n>  
>>
```

```
/** An alternative is just a list of elements; at outermost level */  
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<  
// <fileName>:<description>  
{  
  <@declarations(>  
  <elements:element(>  
  <rew>  
  <@cleanup(>  
}  
>>
```

```
/** What to emit when there is no rewrite. For auto build  
 * mode, does nothing.  
 */  
noRewrite(rewriteBlockLevel, treeLevel) ::= ""
```

```
// E L E M E N T S
```

```
/** Dump the elements one per line */  
element(e) ::= <<  
  <@prematch(>  
  <e.el>  
>>
```

```
/** match a token optionally with a label in front */  
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<  
<if(label)><label>=<labelType><endif>match(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex  
>); <checkRuleBacktrackFailure(>  
>>
```

```
/** ids+=ID */  
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<  
<tokenRef(token,label,elementIndex,terminalOptions)>
```

```

<listLabel(label, label)>
>>

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new ArrayList<Object>();
list_<label>.add(<elem>);
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);
<endif>
match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);
<else>
<label>=<castToLabelType("input.LT(1)")>;
<endif>
<endif>
if ( <s> ) {
input.consume();
<postmatchCode>
<if(!LEXER)>
state.errorRecovery=false;
<endif>
<if(backtracking)>state.failed=false;<endif>
}
else {
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
<@mismatchedSetException()>
<if(LEXER)>
recover(mse);
throw mse;

```

```

<else>
    throw mse;
    <! use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
    int <label>Start = getCharIndex();
    match(<string>); <checkRuleBacktrackFailure()>
    int <label>StartLine<elementIndex> = getLine();
    int <label>StartCharPos<elementIndex> = getCharPositionInLine();
    <label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start,
    getCharIndex()-1);
    <label>.setLine(<label>StartLine<elementIndex>);
    <label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
    match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(label)>
<label>=<castToLabelType("input.LT(1)")>;
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<wildcard(...)>
<listLabel(label, label)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);

```

```

<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope.delegateName()>.<endif><rule.name>(<args; separator=", ">);
state._fsp--;
<checkRuleBacktrackFailure()>
>>

/** ids+=1 */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
<if(scope)><scope.delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
<if(scope)><scope.delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>

```

```

<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
int <label>Start<elementIndex> = getCharIndex();
int <label>StartLine<elementIndex> = getLine();
int <label>StartCharPos<elementIndex> = getCharPositionInLine();
match(EOF); <checkRuleBacktrackFailure()>
<labelType> <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
getCharIndex()-1);
<label>.setLine(<label>StartLine<elementIndex>);
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>);
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

// used for left-recursive rules
recRuleDefArg()          ::= "int <recRuleArg()>"
recRuleArg()             ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name)  ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>

```

```

>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(pred,description)>) ) {
  <ruleBacktrackFailure()>
  throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
<if((!isTrue.(last(edges).labelExpr)) && (!last(edges).predicates))>
else {
  <if(eotPredictsAlt)>
  alt<decisionNumber>=<eotPredictsAlt>;
  <else>
  <ruleBacktrackFailure()>
  <(nvaExceptionWrapperMap.(k))({NoViableAltException nvae =
  new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
  <@noViableAltException()>
  throw nvae;})>
  <endif>
}
<endif>
>>

nvaExceptionWrapperMap ::= [
  "1": "wrapNvaExceptionForK1",
  "2": "wrapNvaExceptionForK2",
  default: "wrapNvaExceptionForKN"
]

wrapNvaExceptionForK1(exceptionCode) ::= <<
<exceptionCode>
>>

wrapNvaExceptionForK2(exceptionCode) ::= <<
int nvaeMark = input.mark();
try {
  input.consume();
  <exceptionCode>
} finally {

```

```

input.rewind(nvaeMark);
}
>>

```

```

wrapNvaExceptionForKN(exceptionCode) ::= <<
int nvaeMark = input.mark();
try {
for (int nvaeConsume = 0; nvaeConsume \< <k> - 1; nvaeConsume++) {
input.consume();
}
<exceptionCode>
} finally {
input.rewind(nvaeMark);
}
>>

```

```

/** Same as a normal DFA state except that we don't examine lookahead
* for the bypass alternative. It delays error detection but this
* is faster, smaller, and more what people expect. For (X)? people
* expect "if ( LA(1)==X ) match(X);" and that's it.
*/
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
>>

```

```

/** A DFA state that is actually the loopback decision of a closure
* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a')* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(<k>);
<edges; separator="\nelse ">
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
alt<decisionNumber>=<eotPredictsAlt>;
}
<endif>
<endif>
>>

```

```

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

```

```

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>) {
  <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<(nvaExceptionWrapperMap.(k))({NoViableAltException nvae =
new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);
<@noViableAltException()>
throw nvae;})>
<endif>
}
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
}
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n">
<if(eotPredictsAlt)>
default:
alt<decisionNumber>=<eotPredictsAlt>;
break;
<endif>
}
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it |case <it>:}; separator="\n">
{
<targetState>
}
break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
static final String DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\n\t">";
static final String DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\n\t">";
static final String[] DFA<dfa.decisionNumber>_transitionS = {
<dfa.javaCompressedTransition:{s|<s; wrap="\n\t">}; separator=",\n">
};

static final short[] DFA<dfa.decisionNumber>_eot =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS);
static final short[] DFA<dfa.decisionNumber>_eof =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS);

```

```

static final char[] DFA<dfa.decisionNumber>_min =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
static final char[] DFA<dfa.decisionNumber>_max =
DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
static final short[] DFA<dfa.decisionNumber>_accept =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
static final short[] DFA<dfa.decisionNumber>_special =
DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS);
static final short[][] DFA<dfa.decisionNumber>_transition;

static {
int numStates = DFA<dfa.decisionNumber>_transitionS.length;
DFA<dfa.decisionNumber>_transition = new short[numStates][];
for (int i=0; i<numStates; i++) {
DFA<dfa.decisionNumber>_transition[i] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}
}

protected class DFA<dfa.decisionNumber> extends DFA {

public DFA<dfa.decisionNumber>(BaseRecognizer recognizer) {
this.recognizer = recognizer;
this.decisionNumber = <dfa.decisionNumber>;
this.eot = DFA<dfa.decisionNumber>_eot;
this.eof = DFA<dfa.decisionNumber>_eof;
this.min = DFA<dfa.decisionNumber>_min;
this.max = DFA<dfa.decisionNumber>_max;
this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}
@Override
public String getDescription() {
return "<dfa.description>";
}
<@errorMethod()>
<if(dfa.specialStateSTs)>
@Override
public int specialStateTransition(int s, IntStream _input) throws NoViableAltException {
<if(LEXER)>
IntStream input = _input;
<endif>
<if(PARSER)>
TokenStream input = (TokenStream)_input;
<endif>
<if(TREE_PARSER)>
TreeNodeStream input = (TreeNodeStream)_input;
<endif>
}
}

```

```

int _s = s;
switch ( s ) {
<dfa.specialStateSTs:{ state |
case <i0> : <! compressed special state numbers 0..n-1 !>
<state>}; separator="\n">
}
<if(backtracking)>
if (state.backtracking>0) {state.failed=true; return -1;}
<endif>
NoViableAltException nvae =
new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input);
error(nvae);
throw nvae;
}
<endif>
}
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
int LA<decisionNumber>_<stateNumber> = input.LA(1);
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
int index<decisionNumber>_<stateNumber> = input.index();
input.rewind();
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>) { s = <targetStateNumber>;}
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;

```

>>

## // D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<operands; separator=\\|\\>"

notPredicate(pred) ::= "!(<evalPredicate(pred,{}>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>\_<stateNumber>===<atom>"

/\*\* Sometimes a lookahead test cannot assume that LA(k) is in a temp variable

\* somewhere. Must ask for the lookahead directly.

\*/

isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%

(LA<decisionNumber>\_<stateNumber> >= <lower> && LA<decisionNumber>\_<stateNumber> \<= <upper>

%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >= <lower> && input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= <<

<ranges; separator=\\|\\>

>>

## // A T T R I B U T E S

globalAttributeScope(scope) ::= <<

<if(scope.attributes)>

protected static class <scope.name>\_scope {

<scope.attributes:{it |<it.decl>;}; separator=\\n">

}

protected Stack\<<scope.name>\_scope> <scope.name>\_stack = new Stack\<<scope.name>\_scope>();

<endif>

>>

ruleAttributeScope(scope) ::= <<

<if(scope)>

<if(scope.attributes)>

protected static class <scope.name>\_scope {

```

<scope.attributes:{it |<it.decl>;}; separator="\n">
}
protected Stack\<<scope.name>_scope> <scope.name>_stack = new Stack\<<scope.name>_scope>();
<endif>
<endif>
>>

returnStructName(r) ::= "<r.name>_return"

returnType(ruleDescriptor) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<elseif(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
%>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<returnScopeBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
%>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><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) ::= <<
<javaTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
%>

```

```

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <ruleDescriptor:returnStructName()> extends <returnScopeBaseType()> {
<if(scope)><scope.attributes:{it |public <it.decl>;}; separator="\n"><endif>
<@ruleReturnMembers()>
};
<endif>
>>

returnScopeBaseType() ::= <%
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope
%>

parameterScope(scope) ::= <<
<scope.attributes:{it |<it.decl>; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1).<attr.name>
<else>
<if(index)>
<scope>_stack.elementAt(<index>).<attr.name>
<else>
<scope>_stack.peek().<attr.name>
<endif>
<endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack.elementAt(<scope>_stack.size()-<negIndex>-1).<attr.name> =<expr>;
<else>
<if(index)>
<scope>_stack.elementAt(<index>).<attr.name> =<expr>;
<else>
<scope>_stack.peek().<attr.name> =<expr>;
<endif>
<endif>
%>

```

```

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?((<returnType(referencedRule)><scope>).<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
%>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
%>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.getText():null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.getType():0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.getLine():0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.getCharPositionInLine():0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.getChannel():0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.getTokenIndex():0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

```

```

tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=null?(<castToLabelType({<scope>.start})>):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?(<castToLabelType({<scope>.stop})>):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>!=null?(<ASTLabelType><scope>.getTree()):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
(<scope>!=null?(input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
input.getTreeAdaptor().getTokenStopIndex(<scope>.start))):null)
<else>
(<scope>!=null?input.toString(<scope>.start,<scope>.stop):null)
<endif>
%>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?((StringTemplate)<scope>.getTemplate()):null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
("<scope>!=null?<scope>.getType():0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
("<scope>!=null?<scope>.getLine():0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=
("<scope>!=null?<scope>.getCharPositionInLine():-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::=
("<scope>!=null?<scope>.getChannel():0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
("<scope>!=null?<scope>.getTokenIndex():0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::=
("<scope>!=null?<scope>.getText():null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
("<scope>!=null?Integer.valueOf(<scope>.getText()):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<castToLabelType(\"retval.start\")>"
rulePropertyRef_stop(scope,attr) ::= "<castToLabelType(\"retval.stop\")>"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(retval.start),
input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
%>

```

```

rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>";
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>";

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
  <action>
}
<else>
<action>
<endif>
%>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static final BitSet <name> = new BitSet(new long[] { <words64: {it |<it>L}; separator="," > });
>>

codeFileExtension() ::= ".java"

true_value() ::= "true"
false_value() ::= "false"

isEmptyString ::= [
  "" : true,
  default : false
]

isTrue ::= [

```

```
"true" : true,  
default : false  
]
```

```
isDefaultLabelType ::= [  
  "Token" : true,  
  default : false  
]
```

```
isPredefinedRewriteRule ::= [  
  "topdown" : true,  
  "bottomup" : true,  
  default : false  
]
```

```
castToLabelType(value) ::= <%  
<if(!isDefaultLabelType.(labelType))>  
(<labelType>  
<endif>  
<value>  
>
```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/Java.stg

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\*/

/\*\* Template overrides to add debugging to normal C output;

\* If ASTs are built, then you'll also get ASTDbg.stg loaded.

\*/

```
@genericParser.members() ::= <<
```

```
<if(grammar.grammarIsRoot)>
```

```
const char *
```

```
ruleNames[] =
```

```
{
```

```
  "invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n ", separator=", ">
```

```
};<\n>
```

```
<endif>
```

```
<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>
```

```
static ANTLR3_UINT32 ruleLevel = 0;
```

```
static ANTLR3_UINT32 getRuleLevel()
```

```
{
```

```
  return ruleLevel;
```

```
}
```

```
static void incRuleLevel()
```

```
{
```

```
  ruleLevel++;
```

```
}
```

```
static void decRuleLevel()
```

```
{
```

```
  ruleLevel--;
```

```
}
```

```
<else> <! imported grammar !>
```

```
static ANTLR3_UINT32
```

```
getRuleLevel()
```

```
{
```

```
  return <grammar.delegators:{g| <g:delegateName()>}>->getRuleLevel();
```

```
}
```

```
static void incRuleLevel()
```

```
{
```

```
  <grammar.delegators:{g| <g:delegateName()>}>->incRuleLevel();
```

```
}
```

```
static void
```

```
decRuleLevel()
```

```
{
```

```
  <grammar.delegators:{g| <g:delegateName()>}>.decRuleLevel();
```

```
}
```

```

<endif>
<if(profile)>
// Profiling not yet implemented for C target
//
<endif>
<if(grammar.grammarIsRoot)>
<ctorForPredefinedListener()>
<else>
<ctorForDelegateGrammar()>
<endif>

static ANTLR3_BOOLEAN
evalPredicate(p<name> ctx, ANTLR3_BOOLEAN result, const char * predicate)
{
    DBG->semanticPredicate(DBG, result, predicate);
    return result;
}<\n>
>>

@genericParser.debugStuff() ::= <<
<if(grammar.grammarIsRoot)>
<createListenerAndHandshake()>
<endif>
>>

ctorForProfilingRootGrammar() ::= <<
>>

/** Basically we don't want to set any dbg listeners as root will have it. */
ctorForDelegateGrammar() ::= <<
>>

ctorForPredefinedListener() ::= <<
>>

createListenerAndHandshake() ::= <<
{
    // DEBUG MODE code
    //
    pANTLR3_DEBUG_EVENT_LISTENER proxy;
    proxy = antlr3DebugListenerNew();
    proxy->grammarFileName = INPUT->tokenSource->strFactory->newStr8(INPUT->tokenSource->strFactory,
    (pANTLR3_UINT8)ctx->getGrammarFileName());

<if(TREE_PARSER)>
    proxy->adaptor = ADAPTOR;

```

```

<endif>
PARSER->setDebugListener(PARSER, proxy);

// Try to connect to the debugger (waits forever for a connection)
//
proxy->handshake(proxy);

// End DEBUG MODE code
//
}
>>

@rule.preamble() ::= <<
if ( getRuleLevel()==0 )
{
DBG->commence(DBG);
}
DBG->enterRule(DBG, getGrammarFileName(), (const char *)<ruleName>");
incRuleLevel();
DBG->location(DBG, <ruleDescriptor.tree.line>, <ruleDescriptor.tree.column>);<\n>
>>

@rule.postamble() ::= <<
DBG->location(DBG, <ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.column>);<\n>
DBG->exitRule(DBG, getGrammarFileName(), (const char *)<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 )
{
DBG->terminate(DBG);
}
<\n>
>>

@checkRuleBacktrackFailure.debugClean() ::= <<
DBG->exitRule(DBG, getGrammarFileName(), (const char *)<ruleName>");
decRuleLevel();
>>

@synpred.start() ::= "DBG->beginBacktrack(DBG, BACKTRACKING);"

@synpred.stop() ::= "DBG->endBacktrack(DBG, BACKTRACKING, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::=
"DBG->enterSubRule(DBG, <decisionNumber>);<\n>"

```

```

exitSubRule() ::=
  "DBG->exitSubRule(DBG, <decisionNumber>);<\n>"

enterDecision() ::=
  "DBG->enterDecision(DBG, <decisionNumber>);<\n>"

exitDecision() ::=
  "DBG->exitDecision(DBG, <decisionNumber>);<\n>"

enterAlt(n) ::= "DBG->enterAlt(DBG, <n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::=
  "DBG->recognitionException(DBG, EXCEPTION);<\n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"

@closureBlock.postdecision() ::= "<exitDecision()>"

@altSwitchCase.prealt() ::= "<enterAlt(altNum)>"

```

```

@element.prematch() ::=
  "DBG->location(DBG, <e.line>, <e.pos>);" // e is arg of element

@matchSet.mismatchedSetException() ::=
  "DBG->recognitionException(DBG, EXCEPTION);"

@newNVException.noViableAltException() ::= "DBG->recognitionException(DBG, EXCEPTION);"

dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
&cdfa<decisionNumber>);
if (HASEXCEPTION())
{
  DBG->recognitionException(DBG, EXCEPTION);
  goto rule<ruleDescriptor.name>Ex;
}
<checkRuleBacktrackFailure()>
>>

@cyclicDFA.errorMethod() ::= <<
//static void
//dfaError(p<name> ctx)
//{
//  DBG->recognitionException(DBG, EXCEPTION);
//}
>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(ctx, <pred>, (const char *)"<description>")
>>

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/Dbg.stg

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```

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\*/

/\*\* Templates for building ASTs during normal parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* The situation is not too bad as rewrite (->) usage makes ^ and !

\* invalid. There is no huge explosion of combinations.

\*/

group ASTParser;

@rule.setErrorReturnValue() ::= <<

RetVal.Tree := Adaptor.ErrorNode(Input, RetVal.Start as IToken,  
Input.LT(-1), RE) as I<ASTLabelType>;

>>

// TOKEN AST STUFF

/\*\* ID and output=AST \*/

tokenRef(token,label,elementIndex,terminalOptions) ::= <<

<super.tokenRef(...)>

<if(backtracking)>

if (State.Backtracking = 0) then

begin<\n>

<endif>

<label>\_tree := <createNodeFromToken(...)>;

Adaptor.AddChild(Root[0], <label>\_tree);

```

<if(backtracking)>
end;
<endif>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := <createNodeFromToken(...)>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having

```

```

// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<super.matchSet(..., postmatchCode={ <if(backtracking)>if (State.Backtracking = 0) then
<endif>Adaptor.AddChild(Root[0], <createNodeFromToken(...)>);}>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(label)>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
<super.matchSet(..., postmatchCode={ <if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] :=
Adaptor.BecomeRoot(<createNodeFromToken(...)>, Root[0] as I<ASTLabelType>);}>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Adaptor.AddChild(Root[0], <label>.Tree);
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[0] := Adaptor.BecomeRoot(<label>.Tree, Root[0])
as I<ASTLabelType>;
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>

```

```

<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

// WILDCARD AST

wildcard(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Adaptor.AddChild(Root[0], <label>_tree);
<if(backtracking)>
end;
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(label,elementIndex) ::= <<
<super.wildcard(...)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<label>_tree := Adaptor.CreateNode(<label>) as I<ASTLabelType>;
Root[0] := Adaptor.BecomeRoot(<label>_tree, Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
>>

createNodeFromToken(label,terminalOptions) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.Create(<label>) <! new MethodNode(IDLabel) !>

```

```

<else>
Adaptor.CreateNode(<label>) as I<ASTLabelType>
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(!TREE_PARSER)>
Adaptor.SetTokenBoundaries(RetVal.Tree, RetVal.Start as IToken, RetVal.Stop as IToken);
<endif>
<if(backtracking)>
<\n>end;
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Delphi/ASTParser.stg
```

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```

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\*/

/\*\* Template overrides to add debugging to normal Java output;

\* If ASTs are built, then you'll also get ASTDbg.stg loaded.

\*/

@outputFile.imports() ::= <<

<@super.imports(>

import org.antlr.runtime.debug.\*;

import java.io.IOException;

>>

@genericParser.members() ::= <<

<if(grammar.grammarIsRoot)>

public static final String[] ruleNames = new String[] {

"invalidRule", <grammar.allImportedRules:{rST | "<rST.name>"}; wrap="\n\t", separator=", ">

};<\n>

<endif>

public static final boolean[] decisionCanBacktrack = new boolean[] {

false, // invalid decision

<grammar.decisions:{d | <d.dfa.hasSynPred; null="false">}; wrap="\n ", separator=", ">

};<\n>

<if(grammar.grammarIsRoot)> <! grammar imports other grammar(s) !>

public int ruleLevel = 0;

public int getRuleLevel() { return ruleLevel; }

public void incRuleLevel() { ruleLevel++; }

public void decRuleLevel() { ruleLevel--; }

<if(profile)>

<ctorForProfilingRootGrammar(>

<else>

<ctorForRootGrammar(>

<endif>

<ctorForPredefinedListener(>

<else><! imported grammar !>

public int getRuleLevel() { return <grammar.delegators:{g| <g.delegateName(>>}.getRuleLevel(); }

public void incRuleLevel() { <grammar.delegators:{g| <g.delegateName(>>}.incRuleLevel(); }

public void decRuleLevel() { <grammar.delegators:{g| <g.delegateName(>>}.decRuleLevel(); }

<ctorForDelegateGrammar(>

<endif>

<if(profile)>

public boolean alreadyParsedRule(IntStream input, int ruleIndex) {

int stopIndex = getRuleMemoization(ruleIndex, input.index());

((Profiler)dbg).examineRuleMemoization(input, ruleIndex, stopIndex,

<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);

return super.alreadyParsedRule(input, ruleIndex);

}

```

@Override
public void memoize(IntStream input,
    int ruleIndex,
    int ruleStartIndex)
{
    ((Profiler)dbg).memoize(input, ruleIndex, ruleStartIndex,
<grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
    super.memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected boolean evalPredicate(boolean result, String predicate) {
    dbg.semanticPredicate(result, predicate);
    return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
public <name><(inputStreamType> input) {
    this(input, DebugEventSocketProxy.DEFAULT_DEBUGGER_PORT, new RecognizerSharedState());
}
public <name><(inputStreamType> input, int port, RecognizerSharedState state) {
    super(input, state);
    <parserCtorBody()>
    <createListenerAndHandshake()>
    <grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegators:{g|, <g:delegateName()>}>)}; separator="\n">
    <@finally()>
}<\n>
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
public <name><(inputStreamType> input) {
    this(input, new Profiler(null), new RecognizerSharedState());
}
public <name><(inputStreamType> input, DebugEventListener dbg, RecognizerSharedState state) {
    super(input, dbg, state);
    Profiler p = (Profiler)dbg;
    p.setParser(this);
    <parserCtorBody()>
    <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state, this<grammar.delegators:{g|,
<g:delegateName()>}>)}; separator="\n">
    <@finally()>
}
<\n>

```

>>

```
/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
public <name>(<inputStreamType> input, DebugEventListener dbg, RecognizerSharedState
state<grammar.delegates:{g|, <g.recognizerName> <g.delegateName()>}>) {
    super(input, dbg, state);
    <parserCtorBody()>
    <grammar.directDelegates:
        {g|<g.delegateName()> = new <g.recognizerName>(input, this, this.state<grammar.delegates:{g|,
<g.delegateName()>}>); separator="\n">
    }<\n>
>>
```

```
ctorForPredefinedListener() ::= <<
public <name>(<inputStreamType> input, DebugEventListener dbg) {
    <@superClassRef>super(input, dbg, new RecognizerSharedState());<@end>
    <if(profile)>
        Profiler p = (Profiler)dbg;
        p.setParser(this);
    <endif>
    <parserCtorBody()>
    <grammar.directDelegates:{g|<g.delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|, <g.delegateName()>}>); separator="\n">
    <@finally()>
    }<\n>
>>
```

```
createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
    DebugEventSocketProxy proxy =
        new DebugEventSocketProxy(this, port, input.getTreeAdaptor());<\n>
<else>
    DebugEventSocketProxy proxy =
        new DebugEventSocketProxy(this, port, null);<\n>
<endif>
    setDebugListener(proxy);
    try {
        proxy.handshake();
    }
    catch (IOException ioe) {
        reportError(ioe);
    }
>>
```

```
@genericParser.superClassName() ::= "Debug<@super.superClassName()>"
```

```
@rule.preamble() ::= <<
```

```

try { dbg.enterRule(getGrammarFileName(), "<ruleName>");
if ( getRuleLevel()==0 ) {dbg.commence();}
incRuleLevel();
dbg.location(<ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine>);<\n>
>>

@rule.postamble() ::= <<
dbg.location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n>
}
finally {
dbg.exitRule(getGrammarFileName(), "<ruleName>");
decRuleLevel();
if ( getRuleLevel()==0 ) {dbg.terminate();}
}<\n>
>>

@synpred.start() ::= "dbg.beginBacktrack(state.backtracking);"

@synpred.stop() ::= "dbg.endBacktrack(state.backtracking, success);"

// Common debug event triggers used by region overrides below

enterSubRule() ::=
"try { dbg.enterSubRule(<decisionNumber>);<\n>"

exitSubRule() ::=
"} finally {dbg.exitSubRule(<decisionNumber>);}<\n>"

enterDecision() ::=
"try { dbg.enterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);<\n>"

exitDecision() ::=
"} finally {dbg.exitDecision(<decisionNumber>);}<\n>"

enterAlt(n) ::= "dbg.enterAlt(<n>);<\n>"

// Region overrides that tell various constructs to add debugging triggers

@block.predecision() ::= "<enterSubRule()><enterDecision()>"

@block.postdecision() ::= "<exitDecision()>"

@block.postbranch() ::= "<exitSubRule()>"

@ruleBlock.predecision() ::= "<enterDecision()>"

@ruleBlock.postdecision() ::= "<exitDecision()>"

```

```

@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

@positiveClosureBlock.predecision() ::= "<enterDecision()>"

@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

@positiveClosureBlock.earlyExitException() ::=
"dbg.recognitionException(eee);<n>"

@closureBlock.preloop() ::= "<enterSubRule()>"

@closureBlock.postloop() ::= "<exitSubRule()>"

@closureBlock.predecision() ::= "<enterDecision()>"

@closureBlock.postdecision() ::= "<exitDecision()>"

@altSwitchCase.prealt() ::= "<enterAlt(altNum)>" // altNum is arg of altSwitchCase

@element.prematch() ::=
"dbg.location(<e.line>,<e.pos>);" // e is arg of element

@matchSet.mismatchedSetException() ::=
"dbg.recognitionException(mse);"

@dfaState.noViableAltException() ::= "dbg.recognitionException(nvae);"

@dfaStateSwitch.noViableAltException() ::= "dbg.recognitionException(nvae);"

dfaDecision(decisionNumber,description) ::= <<
try {
isCyclicDecision = true;
<super.dfaDecision(...)>
}
catch (NoViableAltException nvae) {
dbg.recognitionException(nvae);
throw nvae;
}
>>

@cyclicDFA.errorMethod() ::= <<
public void error(NoViableAltException nvae) {

```

```
dbg.recognitionException(nvae);
}
>>
```

```
/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
evalPredicate(<pred>,"<description>")
>>
```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/Dbg.stg  
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```
/*
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```

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NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
(INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
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*/
```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/RubyTarget.java  
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```
/*
* [The "BSD license"]
* Copyright (c) 2005-2008 Terence Parr
```

```

* All rights reserved.
*
* Conversion to C#:
* Copyright (c) 2008-2009 Sam Harwell, Pixel Mine, Inc.
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*
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* modification, are permitted provided that the following conditions
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* THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT
* (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** Template overrides to add debugging to normal Java output;
* If ASTs are built, then you'll also get ASTDbg.stg loaded.
*/

```

```

@outputFile.imports() ::= <<
<@super.imports(>
using Antlr.Runtime.Debug;
using IOException = System.IO.IOException;
>>

```

```

@genericParser.members() ::= <<
<if(grammar.grammarIsRoot)>
public static readonly string[] ruleNames =
new string[]
{
"invalidRule", <grammar.allImportedRules: {rST | "<rST.name>"}; wrap="\n ", separator=", ">
};<\n>
<endif>
<if(grammar.grammarIsRoot)><! grammar imports other grammar(s) !>
int ruleLevel = 0;

```

```

public virtual int RuleLevel { get { return ruleLevel; } }
public virtual void IncRuleLevel() { ruleLevel++; }
public virtual void DecRuleLevel() { ruleLevel--; }
<if(profile)>
  <ctorForProfilingRootGrammar()>
<else>
  <ctorForRootGrammar()>
<endif>
<ctorForPredefinedListener()>
<else><! imported grammar !>
  public int RuleLevel { get { return <grammar.delegators:{g| <g:delegateName()>>.RuleLevel; } }
  public void IncRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>.IncRuleLevel(); }
  public void DecRuleLevel() { <grammar.delegators:{g| <g:delegateName()>>.DecRuleLevel(); }
  <ctorForDelegateGrammar()>
<endif>
<if(profile)>
public override bool AlreadyParsedRule( IIntStream input, int ruleIndex )
{
  int stopIndex = GetRuleMemoization(ruleIndex, input.Index);
  ((Profiler)dbg).ExamineRuleMemoization(input, ruleIndex, stopIndex,
  <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
  return base.AlreadyParsedRule(input, ruleIndex);
}<\n>
public override void Memoize( IIntStream input, int ruleIndex, int ruleStartIndex )
{
  ((Profiler)dbg).Memoize(input, ruleIndex, ruleStartIndex,
  <grammar.composite.rootGrammar.recognizerName>.ruleNames[ruleIndex]);
  base.Memoize(input, ruleIndex, ruleStartIndex);
}<\n>
<endif>
protected virtual bool EvalPredicate( bool result, string predicate )
{
  dbg.SemanticPredicate( result, predicate );
  return result;
}<\n>
>>

ctorForRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<! Same except we add port number and profile stuff if root grammar !>
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, DebugEventSocketProxy.DefaultDebuggerPort, new RecognizerSharedState() )
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, int port,
RecognizerSharedState state )
: base( input, state )
{

```

```

<createListenerAndHandshake()>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state,
this<grammar.delegates:{g|, <g:delegateName()>}> );}; separator="\n">
<parserCtorBody()>
<@finally()>
}<\n>
>>

ctorForProfilingRootGrammar() ::= <<
<! bug: can't use <@super.members()> cut-n-paste instead !>
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input )
: this( input, new Profiler(null), new RecognizerSharedState() )
{
}
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state )
: base( input, dbg, state )
{
Profiler p = (Profiler)dbg;
p.setParser(this);
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, dbg, this.state, this<grammar.delegates:{g|,
<g:delegateName()>}> );}; separator="\n">
<parserCtorBody()>
<@finally()>
}
}<\n>
>>

/** Basically we don't want to set any dbg listeners are root will have it. */
ctorForDelegateGrammar() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg,
RecognizerSharedState state<grammar.delegates:{g|, <g.recognizerName> <g:delegateName()>}> )
: base( input, dbg, state )
{
<grammar.directDelegates:
{g|<g:delegateName()> = new <g.recognizerName>( input, this, this.state<grammar.delegates:{g|,
<g:delegateName()>}> );}; separator="\n">
<parserCtorBody()>
}<\n>
}>>

ctorForPredefinedListener() ::= <<
<actions.(actionScope).ctorModifier; null="public"> <name>( <inputStreamType> input, IDebugEventListener dbg
)
<@superClassRef>: base( input, dbg, new RecognizerSharedState() )<@end>
{
<if(profile)>

```

```

Profiler p = (Profiler)dbg;
p.setParser(this);
<endif>
<grammar.directDelegates:{g|<g:delegateName()> = new <g.recognizerName>(input, dbg, this.state,
this<grammar.delegates:{g|,<g:delegateName()>}>);}; separator="\n">
<parserCtorBody()>
<@finally()>
}<\n>
>>

```

```

createListenerAndHandshake() ::= <<
<if(TREE_PARSER)>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, input.TreeAdaptor );<\n>
<else>
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port, null );<\n>
<endif>
DebugListener = proxy;
try
{
proxy.Handshake();
}
catch ( IOException ioe )
{
ReportError( ioe );
}
>>

```

```

@genericParser.superClassName() ::= "Debug<@super.superClassName()>"

```

```

/*
* Much of the following rules were merged into CSharp3.stg.
*/

```

```

@rule.preamble() ::= <<
if (RuleLevel == 0)
DebugListener.Commence();
IncRuleLevel();
>>
//@rule.preamble() ::= <<
//try
//{
// dbg.EnterRule( GrammarFileName, "<ruleName>" );
// if ( RuleLevel == 0 )
// {
// dbg.Commence();
// }
// IncRuleLevel();
// dbg.Location( <ruleDescriptor.tree.line>, <ruleDescriptor.tree.charPositionInLine> );<\n>

```

```

//>>

@rule.postamble() ::= <<
DecRuleLevel();
if (RuleLevel == 0)
    DebugListener.Terminate();
>>

//@rule.postamble() ::= <<
//dbg.Location(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);<\n>
//}
//finally
//{{
// dbg.ExitRule( GrammarFileName, "<ruleName>" );
// DecRuleLevel();
// if ( RuleLevel == 0 )
// {
// dbg.Terminate();
// }
//}<\n>
//>>

//@insertSynpreds.start() ::= "dbg.BeginBacktrack( state.backtracking );"
//@insertSynpreds.stop() ::= "dbg.EndBacktrack( state.backtracking, success );"

// Common debug event triggers used by region overrides below

//enterSubRule() ::= <<
//try
//{{
// dbg.EnterSubRule( <decisionNumber> );<\n>
//>>

//exitSubRule() ::= <<
//}
//finally
//{{
// dbg.ExitSubRule( <decisionNumber> );
//}<\n>
//>>

//enterDecision() ::= <<
//try
//{{
// dbg.EnterDecision( <decisionNumber> );<\n>
//>>

//exitDecision() ::= <<
//}

```

```

//finally
//{{
// dbg.ExitDecision( <decisionNumber> );
//}<\n>
//>>

//enterAlt(n) ::= "dbg.EnterAlt( <n> );<\n>"

// Region overrides that tell various constructs to add debugging triggers

//@block.predecision() ::= "<enterSubRule()><enterDecision()>"

//@block.postdecision() ::= "<exitDecision()>"

//@block.postbranch() ::= "<exitSubRule()>"

//@ruleBlock.predecision() ::= "<enterDecision()>"

//@ruleBlock.postdecision() ::= "<exitDecision()>"

//@ruleBlockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

//@blockSingleAlt.prealt() ::= "<enterAlt(n=\"1\")>"

//@positiveClosureBlock.preloop() ::= "<enterSubRule()>"

//@positiveClosureBlock.postloop() ::= "<exitSubRule()>"

//@positiveClosureBlock.predecision() ::= "<enterDecision()>"

//@positiveClosureBlock.postdecision() ::= "<exitDecision()>"

//@positiveClosureBlock.earlyExitException() ::=
// "dbg.RecognitionException( eee<decisionNumber> );<\n>"

//@closureBlock.preloop() ::= "<enterSubRule()>"

//@closureBlock.postloop() ::= "<exitSubRule()>"

//@closureBlock.predecision() ::= "<enterDecision()>"

//@closureBlock.postdecision() ::= "<exitDecision()>"

//@altSwitchCase.prealt() ::= "<enterAlt(n=i)>"

//@element.prematch() ::=
// "dbg.Location( <it.line>, <it.pos> );"

```

```

//@matchSet.mismatchedSetException() ::=
// "dbg.RecognitionException( mse );"

//@dfaState.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//@dfaStateSwitch.noViableAltException() ::= "dbg.RecognitionException( nvae );"

//dfaDecision(decisionNumber,description) ::= <<
//try
//{
// isCyclicDecision = true;
// <super.dfaDecision(...)>
//}
//catch ( NoViableAltException nvae )
//{
// dbg.RecognitionException( nvae );
// throw nvae;
//}
//>>

//@cyclicDFA.errorMethod() ::= <<
//public override void Error( NoViableAltException nvae )
//{
// ((DebugParser)recognizer).dbg.RecognitionException( nvae );
//}
//>>

/** Force predicate validation to trigger an event */
evalPredicate(pred,description) ::= <<
EvalPredicate(<pred>, "<description>")
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/Dbg.stg

```

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/\*

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\*/

group AST;

```
@outputFile.imports() ::= <<
<@super.imports()>
>>
```

```
@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>
```

/\*\* Add an adaptor property that knows how to build trees \*/

```
parserMembers() ::= <<
<!protected TreeAdaptor adaptor = new CommonTreeAdaptor();<\n>!>
setTreeAdaptor: function(adaptor) {
  this.adaptor = adaptor;
  <grammar.directDelegates: {g|<g:delegateName()>.setTreeAdaptor(this.adaptor);}>
},
getTreeAdaptor: function() {
  return this.adaptor;
},
>>
```

```
@returnScope.ruleReturnMembers() ::= <<
getTree: function() { return this.tree; }
>>
```

/\*\* Add a variable to track rule's return AST \*/

```
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0 = null;<\n>
>>
```

```

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{ var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{ var <it.label.text>_tree=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {var stream_<it>=new org.antlr.runtime.tree.RewriteRuleTokenStream(this.adaptor,"token <it>");};
separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = this.adaptor.nil();<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>

```

```

>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.getTree());
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.getTree());
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem=label+".getTree()",...)>
>>

// R e w r i t e

rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
  rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=

```

<<

```
// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef(>.tree = root_0;
<rewriteCodeLabels(>
root_0 = this.adaptor.nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>.tree = this.adaptor.rulePostProcessing(root_0);
this.input.replaceChildren(this.adaptor.getParent(retval.start),
    this.adaptor.getChildIndex(retval.start),
    this.adaptor.getChildIndex(_last),
    retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.tree = root_0;
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>
```

```
rewriteCodeLabels() ::= <<
```

```
<referencedTokenLabels
```

```
 :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>",<it>);};
 separator="\n"
```

```
>
```

```
<referencedTokenListLabels
```

```
 :{var stream_<it>=new org.antlr.runtime.tree.RewriteRule<rewriteElementType>Stream(this.adaptor,"token
<it>", list_<it>);};
 separator="\n"
```

```

>
<referencedWildcardLabels
  :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",<it>);
  separator="\n"
>
<referencedWildcardListLabels
  :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"wildcard <it>",<it>);
  separator="\n"
>
<referencedRuleLabels
  :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token
<it>",<it>!=null?<it>.tree:null);};
  separator="\n"
>
<referencedRuleListLabels
  :{ var stream_<it>=new org.antlr.runtime.tree.RewriteRuleSubtreeStream(this.adaptor,"token <it>",<it>);};
  separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<n>}>
>>

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<n>}>
>>

```

```

rewritePositiveClosureBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::=
<<
if ( !(<referencedElements:{el | stream_<el>.hasNext()}; separator="||">) ) {
    throw new org.antlr.runtime.tree.RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext()}; separator="||"> ) {
    <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
    <a.alt>
}<\n>
<else>
{
    <a.alt>
}<\n>
<endif>
>>

```

```

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

```

```

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel> = this.adaptor.nil();
<root:rewriteElement()>
<children:rewriteElement()>
this.adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

```

```

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

```

```

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

```

```

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createRewriteNodeFromElement(...)>, root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
this.adaptor.addChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/

```

```

prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
this.adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = this.adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
this.adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node><tokenType><if(args)>, <args; separator=", "><endif>
<else>
this.adaptor.create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)

```

```

<endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
this.adaptor.create(<token>, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/JavaScript/AST.stg

```

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```

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```

```

*/

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;

public ITreeAdaptor TreeAdaptor
{
    get
    {
        return adaptor;
    }
    set
    {
<if(grammar.grammarIsRoot)>
        this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
<else>
        this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<endif><\n>
        <grammar.directDelegates:{g|<g:delegateName().TreeAdaptor = this.adaptor;}>
    }
}<\n>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy = new DebugEventSocketProxy( this, port,
<if(TREE_PARSER)>input.TreeAdaptor<else>adaptor<endif> );
DebugListener = proxy;
<inputStreamType> = new Debug<inputStreamType>( input, proxy );
try
{
    proxy.Handshake();
}
catch ( IOException ioe )
{
    ReportError( ioe );
}
>>

@ctorForRootGrammar.finally() ::= <<
ITreeAdaptor adap = new CommonTreeAdaptor();

```

```
TreeAdaptor = adap;  
proxy.TreeAdaptor = adap;  
>>
```

```
@ctorForProfilingRootGrammar.finally() ::=<<<  
ITreeAdaptor adap = new CommonTreeAdaptor();  
TreeAdaptor = adap;  
>>
```

```
@ctorForPredefinedListener.superClassRef() ::= " : base( input, dbg )"
```

```
@ctorForPredefinedListener.finally() ::=<<<  
<if(grammar.grammarIsRoot)><! don't create new adaptor for delegates !>  
ITreeAdaptor adap = new CommonTreeAdaptor();  
TreeAdaptor = adap;<\n>  
<endif>  
>>
```

```
//@rewriteElement.pregen() ::= "dbg.Location( <e.line>, <e.pos> );"
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/CSharp2/ASTDbg.stg
```

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```

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\*/

```
scalaTypeInitMap ::= [  
  "Int":"0",  
  "Long":"0",  
  "Float":"0.0f",  
  "Double":"0.0",  
  "Boolean":"false",  
  "Byte":"0",  
  "Short":"0",  
  "Char":"0",  
  default:"null" // anything other than an atomic type  
]
```

```
/** The overall file structure of a recognizer; stores methods for rules  
 * and cyclic DFAs plus support code.
```

\*/

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
  docComment, recognizer,  
  name, tokens, tokenNames, rules, cyclicDFAs,  
  bitsets, buildTemplate, buildAST, rewriteMode, profile,  
  backtracking, synpreds, memoize, numRules,  
  fileName, ANTLRVersion, generatedTimestamp, trace,  
  scopes, superClass, literals) ::=
```

<<

```
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>  
<actions.(actionScope).header>
```

```
<@imports>
```

```
import org.antlr.runtime._
```

```
<if(TREE_PARSER)>
```

```
import org.antlr.runtime.tree._
```

```
<endif>
```

```
<@end>
```

```
<docComment>
```

```
<recognizer>
```

>>

```
lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",  
  superClass="Lexer") ::= <<
```

```
object <grammar.recognizerName> {
```

```
  <tokens:{it | val <it.name> = <it.type>} ; separator="\n">
```

```

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
}

class <grammar.recognizerName>(input: CharStream, state<grammar.delegators:{g|, <g.recognizerName>
<g.delegateName()>}>: RecognizerSharedState) extends <@superClassName><superClass><@end>(input,
state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>) {
    import <grammar.recognizerName>._
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|<g.recognizerName> <g.delegateName()>}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|<g.recognizerName> <g.delegateName()>}; separator="\n">
    <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

    <scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScope()><endif>}>

    def this(input<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>: CharStream) =
        this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}>)

    <if(memoize)>
    <if(grammar.grammarIsRoot)>
        state.ruleMemo = new Array[java.util.Map[_,_]](<numRules>+1)<\n> <! index from 1..n !>
    <endif>
    <endif>
        <grammar.directDelegates:
            {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName()>}>, this)}; separator="\n">
        <grammar.delegators:
            {g|this.<g.delegateName()> = <g.delegateName()>}; separator="\n">
        <last(grammar.delegators):{g|gParent = <g.delegateName()>}>

    override def getGrammarFileName = "<fileName>"

    <if(filterMode)>
        <filteringNextToken()>
    <endif>
        <rules; separator="\n\n">

        <synpreds:{p | <lexerSynpred(p)>}>
        <cyclicDFAs:{dfa | private val dfa<dfa.decisionNumber> = new
<grammar.recognizerName>.DFA<dfa.decisionNumber>(this)}; separator="\n">
    }
    >>

    /** A override of Lexer.nextToken() that backtracks over mTokens() looking

```

```

* for matches. No error can be generated upon error; just rewind, consume
* a token and then try again. backtracking needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at backtracking==1.
*/
filteringNextToken() ::= <<
override def nextToken(): Token = {
  while (true) {
    if ( input.LA(1)==CharStream.EOF ) {
      var eof: Token = new CommonToken((CharStream)input,Token.EOF,
        Token.DEFAULT_CHANNEL,
        input.index(),input.index())
      eof.setLine(getLine())
      eof.setCharPositionInLine(getCharPositionInLine())
      return eof
    }
    state.token = null
state.channel = Token.DEFAULT_CHANNEL
    state.tokenStartCharIndex = input.index()
    state.tokenStartCharPositionInLine = input.getCharPositionInLine()
    state.tokenStartLine = input.getLine()
state.text = null
    try {
      val m = input.mark()
      state.backtracking=1 <! means we won't throw slow exception !>
      state.failed=false
      mTokens()
      state.backtracking=0
      <! mTokens backtracks with synpred at backtracking==2
      and we set the synpredgate to allow actions at level 1. !>
      if ( state.failed ) {
        input.rewind(m)
        input.consume() <! advance one char and try again !>
      }
      else {
        emit()
        return state.token
      }
    }
    catch {
      case re: RecognitionException =>
        // shouldn't happen in backtracking mode, but...
        reportError(re)
        recover(re)
    }
  }
}

```

```

override def memoize(input: IntStream,
  ruleIndex: Int,
  ruleStartIndex: Int) = {
if ( state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex)
}

override def alreadyParsedRule(input: IntStream, ruleIndex: Int):Boolean {
if ( state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex)
return false
}
>>

actionGate() ::= "state.backtracking==0"

filteringActionGate() ::= "state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, inputStreamType, superClass,
  labelType, members, rewriteElementType,
  filterMode, ASTLabelType="Object") ::= <<
object <grammar.recognizerName> {
<if(grammar.grammarIsRoot)>
  val tokenNames = Array(
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
  )<\n>
<endif>

  <tokens:{it | val <it.name> = <it.type>}; separator="\n">

  <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

  <bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
    words64=it.bits)>}>
}

class <grammar.recognizerName>(input: <inputStreamType>, state<grammar.delegators:{g|, <g.recognizerName>
<g:delegateName()>}: RecognizerSharedState) extends <@superClassName><superClass><@end>(input, state) {
  import <grammar.recognizerName>._
  // delegates
  <grammar.delegates:
    {g|public <g.recognizerName> <g:delegateName()>}; separator="\n">
  // delegators
  <grammar.delegators:
    {g|public <g.recognizerName> <g:delegateName()>}; separator="\n">
  <last(grammar.delegators):{g|public <g.recognizerName> gParent;}>

  <scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScope()><endif>}>
}

```

```

<@members>
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
def this(input<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>: <inputStreamType>) =
  this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}>)

  <parserCtorBody()>
  <grammar.directDelegates:
    {g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegators):{p|,
<p.delegateName()>}>, this)}; separator="\n">
    <grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegateName()>.<g.delegateName()>};
separator="\n">
    <last(grammar.delegators):{g|gParent = <g.delegateName()>}>
  <@end>

  override def getTokenNames: Array[String] = tokenNames
  override def getGrammarFileName = "<fileName>"

  <members>

  <rules; separator="\n\n">

  <! generate rule/method definitions for imported rules so they
  appear to be defined in this recognizer. !>
  // Delegated rules
  <grammar.delegatedRules:{ruleDescriptor|
    @throws(classOf[RecognitionException])
    def <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>): <returnType()> = \{
  <if(ruleDescriptor.hasReturnValue)>return
  <endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes:
  {a|<a.name>}; separator=", ">) \}}; separator="\n">

  <synpreds:{p | <synpred(p)>}>

  <cyclicDFAs:{dfa | private val dfa<dfa.decisionNumber> = new
  <grammar.recognizerName>.DFA<dfa.decisionNumber>(this)}; separator="\n">
  }
  >>

  parserCtorBody() ::= <<
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
  this.state.ruleMemo = new Array[java.util.Map[_,_]](<length(grammar.allImportedRules)>+1)<\n> <! index from
  1..n !>
  <endif>
  <endif>
  <grammar.delegators:
  {g|this.<g.delegateName()> = <g.delegateName()>}; separator="\n">

```

```

>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="Object", superClass="Parser", labelType="Token",
    members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="TokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
    superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
    members={<actions.treeparser.members>}
    ) ::= <<
<genericParser(inputStreamType="TreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
@throws(classOf[RecognitionException])
def <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(>): Unit = {
    <ruleLabelDefs(>
<if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
    try {
        <block>
    }
    finally {
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
<else>
    <block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<

```

```

final def <name>(): Boolean = {
  state.backtracking+=1
  <@start()>
  val start = input.mark()
  try {
    <name>_fragment() // can never throw exception
  } catch {
    case re: RecognitionException =>
      System.err.println("impossible: "+re)
  }
  val success = !state.failed
  input.rewind(start)
  <@stop()>
  state.backtracking-=1
  state.failed=false
  success
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index> ) ) { return <ruleReturnValue()> }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) return <ruleReturnValue()><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; return <ruleReturnValue()>}<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
// <fileName>:<description>

```

```

@throws(classOf[RecognitionException])
final def <ruleName>(<ruleDescriptor.parameterScope:parameterScope>): <returnType> = {
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>)<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
  <@preamble()>
  try {
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanup()>
    <(ruleDescriptor.actions.after):execAction()>
  }
  <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
  <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
      <actions.(actionScope).rulecatch>
    <else>
      catch {
        case re: RecognitionException =>
          reportError(re)
          recover(input,re)
      }
    <@setErrorReturnValue()>
    }<\n>
  <endif>
  <endif>
  <endif>
  finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanup()>
    <finally>
  }
  <@postamble()>
  return <ruleReturnValue()>
}
// $ANTLR end "<ruleName>"
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
  <e.action>
}
>>

```

```

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
val retval = new <returnType>()
retval.start = input.LT(1)<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
var <a.name>: <a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>
}>
<endif>
<if(memoize)>
val <ruleDescriptor.name>_startIndex = input.index()
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {it | <it>_stack.push(new <it>_scope()); separator="\n">
<ruleDescriptor.ruleScope: {it | <it.name>_stack.push(new <it.name>_scope()); separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {it | <it>_stack.pop(); separator="\n">
<ruleDescriptor.ruleScope: {it | <it.name>_stack.pop(); separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | var <it.label.text>: <labelType> = null}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | var list_<it.label.text>: java.util.List=null}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels: {ll|var <ll.label.text>: RuleReturnScope = null}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it | var <it.label.text>: <labelType>=null}; separator="\n"
>
<ruleDescriptor.charLabels: {it | int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it | var list_<it.label.text>: java.util.List=null}; separator="\n"
>

```

```
>>
```

```
ruleReturnValue() ::= <<  
<if(!ruleDescriptor.isSynPred)>  
<if(ruleDescriptor.hasReturnValue)>  
<if(ruleDescriptor.hasSingleReturnValue)>  
<ruleDescriptor.singleValueReturnName>  
<else>  
retval  
<endif>  
<endif>  
<endif>  
>>
```

```
ruleCleanUp() ::= <<  
<if(ruleDescriptor.hasMultipleReturnValues)>  
<if(!TREE_PARSER)>  
retval.stop = input.LT(-1)<\n>  
<endif>  
<endif>  
>>
```

```
memoize() ::= <<  
<if(memoize)>  
<if(backtracking)>  
if ( state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex) }  
<endif>  
<endif>  
>>
```

```
/** How to generate a rule in the lexer; naked blocks are used for  
* fragment rules.  
*/
```

```
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<  
// $ANTLR start "<ruleName>"  
@throws(classOf[RecognitionException])  
final def m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>): Unit = {  
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>)<endif>  
  <ruleScopeSetUp()>  
  <ruleDeclarations()>  
  try {  
<if(nakedBlock)>  
    <ruleMemoization(name=ruleName)>  
    <lexerRuleLabelDefs()>  
    <ruleDescriptor.actions.init>  
    try <block><\n>  
<else>  
    var _type = <ruleName>
```

```

    var _channel = BaseRecognizer.DEFAULT_TOKEN_CHANNEL
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs()>
    <ruleDescriptor.actions.init>
    try <block>
    <ruleCleanUp()>
    state.`type` = _type
    state.channel = _channel
    <(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>)<endif>
    <ruleScopeCleanUp()>
    <memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

```

```

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */

```

```

tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
@throws(classOf[RecognitionException])
def mTokens(): Unit = {
    <block><\n>
}
>>

```

```

// S U B R U L E S

```

```

/** A (...) subrule with multiple alternatives */

```

```

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
alt<decisionNumber> match {
    <alts:{ a | <altSwitchCase(i,a)> }>
    case _ =>
}
<@postbranch()>
>>

```



```

    else {
    <ruleBacktrackFailure()>
        val eee = new EarlyExitException(<decisionNumber>, input)
        <@earlyExitException()>
        throw eee
    }
}
cnt<decisionNumber>+=1
}
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/\*\* A (..)\* block with 1 or more alternatives \*/

```

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
var loop<decisionNumber>_quitflag = false
while (!loop<decisionNumber>_quitflag) {
    var alt<decisionNumber>:Int = <maxAlt>
    <@predecision()>
    <decision>
    <@postdecision()>
    alt<decisionNumber> match {
        <alts:{a | <altSwitchCase(i,a)>}>
    case _ => loop<decisionNumber>_quitflag = true
    }
}
<@postloop()>
>>

```

closureBlockSingleAlt ::= closureBlock

/\*\* Optional blocks (x)? are translated to (x|) by before code generation

\* so we can just use the normal block template

\*/

optionalBlock ::= block

optionalBlockSingleAlt ::= block

/\*\* A case in a switch that jumps to an alternative given the alternative

\* number. A DFA predicts the alternative and then a simple switch

\* does the jump to the code that actually matches that alternative.

\*/

altSwitchCase(altNum, alt) ::= <<

```

case <altNum> =>
  <@prealt()>
  <alt>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
  <@declarations()>
  <elements:element()>
  <rew>
  <@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element(e) ::= <<
  <@prematch()>
  <e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  <if(label)><label>=<endif>`match`(input,<token>,FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label)>
  .asInstanceOf[<labelType>]<endif>
  <checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
  <tokenRef(...)>
  <listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
  if (list_<label>==null) list_<label>=new java.util.ArrayList()
  list_<label>.add(<elem>)<\n>
>>

/** match a character */

```

```

charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1)<\n>
<endif>
`match`(<char>)
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1)<\n>
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1)<\n>
<else>
<label>=input.LT(1).asInstanceOf[<labelType>]<\n>
<endif>
<endif>
if ( <s> ) {
    input.consume()
    <postmatchCode>
<if(!LEXER)>
    state.errorRecovery=false<\n>
<endif>
    <if(backtracking)>state.failed=false<endif>
}
else {
    <ruleBacktrackFailure()>
    val mse = new MismatchedSetException(null,input)
    <@mismatchedSetException()>
<if(LEXER)>
    recover(mse)
    throw mse
<else>
    throw mse
    <! use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>)
    !>
<endif>
}<\n>
>>

```

```

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
val <label>Start = getCharIndex()
`match`(<string>)
<checkRuleBacktrackFailure()>
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL, <label>Start,
getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
`match`(<string>)
<checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=input.LT(1).asInstanceOf[<labelType>]<\n>
<endif>
matchAny(input)
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1)<\n>
<endif>
matchAny()
<checkRuleBacktrackFailure()>
>>

```

```

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)><label>=<endif><if(scope)><scope.delegateName()>.<endif><rule.name><(<args; separator=", "><n>
state._fsp-=1
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
<if(scope)><scope.delegateName()>.<endif>m<rule.name><(<args; separator=", ">
<checkRuleBacktrackFailure()>
<label> = new <labelType>(input, Token.INVALID_TOKEN_TYPE, Token.DEFAULT_CHANNEL,
<label>Start<elementIndex>, getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
<if(scope)><scope.delegateName()>.<endif>m<rule.name><(<args; separator=", ">)
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */

```

```

lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
val <label>Start<elementIndex> = getCharIndex()
val <label>StartLine<elementIndex> = getLine()
val <label>StartCharPos<elementIndex> = getCharPositionInLine()
`match`(EOF)
<checkRuleBacktrackFailure()>
val <label> = new <labelType>(input, EOF, Token.DEFAULT_CHANNEL, <label>Start<elementIndex>,
getCharIndex()-1)
<label>.setLine(<label>StartLine<elementIndex>)
<label>.setCharPositionInLine(<label>StartCharPos<elementIndex>)
<else>
`match`(EOF)
<checkRuleBacktrackFailure()>
<endif>
>>

// used for left-recursive rules
recRuleDefArg()           ::= "int <recRuleArg()>"
recRuleArg()              ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction()  ::= "root_0=${<ruleName>}_primary.tree;"
recRuleSetReturnAction(src,name) ::= "${<name>}=${<src>}.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
`match`(input, Token.DOWN, null)
<checkRuleBacktrackFailure()>
<children:element()>
`match`(input, Token.UP, null)
<checkRuleBacktrackFailure()>
}
<else>
`match`(input, Token.DOWN, null)
<checkRuleBacktrackFailure()>
<children:element()>
`match`(input, Token.UP, null)

```

```

<checkRuleBacktrackFailure(>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> ) ) {
    <ruleBacktrackFailure(>
    throw new FailedPredicateException(input, "<ruleName>", "<description>")
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
val LA<decisionNumber>_<stateNumber> = input.LA(<k>)<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>
<else>
    <ruleBacktrackFailure(>
    val nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input)<\n>
    <@noViableAltException(>
    throw nvae<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
val LA<decisionNumber>_<stateNumber> = input.LA(<k>)<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<

```

```

val LA<decisionNumber>_<stateNumber> = input.LA(<k>)<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else {
  alt<decisionNumber>=<eotPredictsAlt>
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>"

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif>) {
  <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
input.LA(<k>) match {
<edges; separator="\n">
case _ =>
<if(eotPredictsAlt)>
  alt<decisionNumber>=<eotPredictsAlt>
<else>
  <ruleBacktrackFailure()>
  val nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input)<\n>
  <@noViableAltException()>
  throw nvae<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
input.LA(<k>) match {

```

```

    <edges; separator="\n">
    case _ =>
} <\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
input.LA(<k>) match {
<edges; separator="\n"><\n>
case _ =>
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
case <labels:{it | <it>}; separator=" | "> =>
{
    <targetState>
}
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
val DFA<dfa.decisionNumber>_eotS =
    "<dfa.javaCompressedEOT; wrap="+\n \>"
val DFA<dfa.decisionNumber>_eofS =
    "<dfa.javaCompressedEOF; wrap="+\n \>"
val DFA<dfa.decisionNumber>_minS =
    "<dfa.javaCompressedMin; wrap="+\n \>"
val DFA<dfa.decisionNumber>_maxS =

```

```

    "<dfa.javaCompressedMax; wrap="\n \n" >"
    val DFA<dfa.decisionNumber>_acceptS =
        "<dfa.javaCompressedAccept; wrap="\n \n" >"
    val DFA<dfa.decisionNumber>_specialS =
        "<dfa.javaCompressedSpecial; wrap="\n \n" >}"
    val DFA<dfa.decisionNumber>_transitionS: Array[String] = Array(
        <dfa.javaCompressedTransition: {s|<s; wrap="\n \n" >"}; separator=",\n" >
    )

    val DFA<dfa.decisionNumber>_eot: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eotS)
    val DFA<dfa.decisionNumber>_eof: Array[Short] = DFA.unpackEncodedString(DFA<dfa.decisionNumber>_eofS)
    val DFA<dfa.decisionNumber>_min: Array[Char] =
        DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS)
    val DFA<dfa.decisionNumber>_max: Array[Char] =
        DFA.unpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS)
    val DFA<dfa.decisionNumber>_accept: Array[Short] =
        DFA.unpackEncodedString(DFA<dfa.decisionNumber>_acceptS)
    val DFA<dfa.decisionNumber>_special: Array[Short] =
        DFA.unpackEncodedString(DFA<dfa.decisionNumber>_specialS)
    val DFA<dfa.decisionNumber>_transition = new
        Array[Array[Short]](DFA<dfa.decisionNumber>_transitionS.length)

    for (i <- DFA<dfa.decisionNumber>_transition.indices) {
        DFA<dfa.decisionNumber>_transition(i) =
        DFA.unpackEncodedString(DFA<dfa.decisionNumber>_transitionS(i))
    }

    class DFA<dfa.decisionNumber> extends DFA {

        def this(recognizer: BaseRecognizer) = {
            this()
            this.recognizer = recognizer
            this.decisionNumber = <dfa.decisionNumber>
            this.eot = DFA<dfa.decisionNumber>_eot
            this.eof = DFA<dfa.decisionNumber>_eof
            this.min = DFA<dfa.decisionNumber>_min
            this.max = DFA<dfa.decisionNumber>_max
            this.accept = DFA<dfa.decisionNumber>_accept
            this.special = DFA<dfa.decisionNumber>_special
            this.transition = DFA<dfa.decisionNumber>_transition
        }

        override def getDescription = "<dfa.description>"
        <@errorMethod()>
        <if(dfa.specialStateSTs)>
            @throws(classOf[NoViableAltException])
            override def specialStateTransition(s: Int, _input: IntStream):Int = {
                <if(LEXER)>
                    val input = _input

```

```

    <endif>
    <if(PARSER)>
    val input = _input.asInstanceOf[TokenStream]
    <endif>
    <if(TREE_PARSER)>
    val input = _input.asInstanceOf[TreeNodeStream]
    <endif>
    val _s = s
    s match {
    <dfa.specialStateSTs:{state |
    case <i0> => <! compressed special state numbers 0..n-1 !>
        <state>}; separator="\n">
    case _ =>
        }
    <if(backtracking)>
        if (state.backtracking>0) {state.failed=true; return -1 }<\n>
    <endif>
        val nvae = new NoViableAltException(getDescription(), <dfa.decisionNumber>, _s, input)
        error(nvae)
        throw nvae
    }<\n>
    <endif>
    }<\n>
    >>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
val LA<decisionNumber>_<stateNumber>: Int = input.LA(1)<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
val index<decisionNumber>_<stateNumber>: Int = input.index()
input.rewind()<\n>
<endif>
s = -1
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)<\n>
<endif>
if ( s>=0 ) return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) {s = <targetStateNumber>}<\n>
>>

```

```

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber><\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<operands; separator=\\|\\>"

notPredicate(pred) ::= "!(<evalPredicate(pred,\\\">)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
(LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> \<= <upper>)
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >=<lower>
&& input.LA(<k>) \<= <upper>)"

setTest(ranges) ::= "<ranges; separator=\\|\\>"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope {
  <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n">
}
val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]<\n>
<endif>
>>

```

```

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
class <scope.name>_scope {
  <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n">
}
val <scope.name>_stack = new collection.mutable.Stack[<scope.name>_scope]<\n>
<endif>
>>

returnStructName(r) ::= "<r.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
Unit
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
Unit
<endif>
<endif>
>>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><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) ::= <<
<scalaTypeInitMap.(typeName)>
>>

```

```

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
var <label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))><\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 * TODO(matthewlloyd): make this static
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
final class <ruleDescriptor:returnStructName()> extends
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
  <scope.attributes:{it | var <it.name>: <it.type> = _}; separator="\n">
  <@ruleReturnMembers()>
}
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{it | <it.name>: <it.type>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>"

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack(<scope>_stack.size-<negIndex>-1).<attr.name>
<else>
<if(index)>
<scope>_stack(<index>).<attr.name>
<else>
<scope>_stack.top.<attr.name>
<endif>
<endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack(<scope>_stack.size-<negIndex>-1).<attr.name> = <expr>
<else>
<if(index)>
<scope>_stack(<index>).<attr.name> = <expr>
<else>

```

```

<scope>_stack.top.<attr.name> = <expr>
<endif>
<endif>
%>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {function.size()>0 && function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
(if (<scope>!=null) <scope>.<attr.name> else <initValue(attr.type)>)
<else>
<scope>
<endif>
%>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>
<else>
<attr.name> =<expr>
<endif>
%>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(if (<scope>!=null) <scope>.getText() else null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(if (<scope>!=null) <scope>.getType() else 0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(if (<scope>!=null) <scope>.getLine() else 0)"

```

```

tokenLabelPropertyRef_pos(scope,attr) ::= "(if (<scope>!=null) <scope>.getCharPositionInLine() else 0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(if (<scope>!=null) <scope>.getChannel() else 0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(if (<scope>!=null) <scope>.getTokenIndex() else 0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(if (<scope>!=null) Integer.valueOf(<scope>.getText()) else 0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(if (<scope>!=null) <scope>.start.asInstanceOf[<labelType>] else null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(if (<scope>!=null) <scope>.stop.asInstanceOf[<labelType>] else null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(if (<scope>!=null) <scope>.tree.asInstanceOf[<ASTLabelType>] else
null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(if (<scope>!=null) (input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(<scope>.start),
input.getTreeAdaptor().getTokenStopIndex(<scope>.start))) else null)
<else>
(if (<scope>!=null) input.toString(<scope>.start,<scope>.stop) else null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "(if (<scope>!=null) <scope>.st else null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"(if (<scope>!=null) <scope>.getType() else 0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
"(if (<scope>!=null) <scope>.getLine() else 0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"(if (<scope>!=null) <scope>.getCharPositionInLine() else -1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"(if (<scope>!=null) <scope>.getChannel() else 0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
"(if (<scope>!=null) <scope>.getTokenIndex() else 0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::=
"(if (<scope>!=null) <scope>.getText() else null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
"(if (<scope>!=null) Integer.valueOf(<scope>.getText()) else 0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(retval.start.asInstanceOf[<labelType>])"
rulePropertyRef_stop(scope,attr) ::= "(retval.stop.asInstanceOf[<labelType>])"
rulePropertyRef_tree(scope,attr) ::= "(retval.tree.asInstanceOf[<ASTLabelType>])"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.getTokenStream().toString(
input.getTreeAdaptor().getTokenStartIndex(retval.start),

```

```

input.getTreeAdaptor().getTokenStopIndex(retval.start))
<else>
input.toString(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "getText()"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "Integer.valueOf(<scope>.getText())"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
  <action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
val <name> = new BitSet(Array[Long](<words64:{it | <it>L};separator=",">))<\n>
>>

codeFileExtension() ::= ".scala"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):

```

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Scala/Scala.stg

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

/\*

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\*/

csharpVisibilityMap ::= [

"private": "private",

"protected": "protected",

"public": "public",

"fragment": "private",

default: "private"

]

/\*\* The overall file structure of a recognizer; stores methods for rules

\* and cyclic DFAs plus support code.

\*/

outputFile( LEXER,PARSER,TREE\_PARSER, actionScope, actions,

docComment, recognizer,

name, tokens, tokenNames, rules, cyclicDFAs,

```

    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::=
<<
//-----
//\<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>
//-----

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<if(trace)>
#define ANTLR_TRACE
<endif>
<@debugPreprocessor()>
// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 168, 219
// Unreachable code detected.
#pragma warning disable 162
// Missing XML comment for publicly visible type or member 'Type_or_Member'
#pragma warning disable 1591

<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
using Antlr.Runtime.Misc;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
<endif>
using ConditionalAttribute = System.Diagnostics.ConditionalAttribute;
<@end>
<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>
<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>

```

```

} // namespace <actions.(actionScope).namespace>
<endif>
>>

lexerInputStreamType() ::= <<
<actions.(actionScope).inputStreamType; null="ICharStream">
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif>}) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">
<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

// delegates
<grammar.delegates:
    {g|private <g.recognizerName> <g.delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
    {g|private <g.recognizerName> <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|private <g.recognizerName> gParent;}>

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>()<(! needed by subclasses !>
{
    OnCreated();
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()>
input<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}> )
: this(input, new RecognizerSharedState()<grammar.delegators:{g|, <g.delegateName()>}>)
{
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType()> input,
RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<if(memoize)>
<if(grammar.grammarIsRoot)>
    state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];<\n><(! index from 1..n !>
<endif>
<endif>
}
}

```

```

    <grammar.directDelegates:
        { g|<g:delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegates):{p|,
    <p:delegateName()>}>, this);}; separator="\n">
    <grammar.delegates:
        { g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
    <last(grammar.delegates):{ g|gParent = <g:delegateName()>;}>

    OnCreated();
    }
    public override string GrammarFileName { get { return "<fileName>"; } }

    private static readonly bool[] decisionCanBacktrack = new bool[0];

    <if(grammar.hasDelegates)>
    public override <lexerInputStreamType()> CharStream
    {
        get
        {
            return base.CharStream;
        }
        set
        {
            base.CharStream = value;
            <grammar.directDelegates:
                { g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegates):{p|, <p:delegateName()>}>,
    this);}; separator="\n">
            <grammar.delegates:
                { g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
            <last(grammar.delegates):{ g|gParent = <g:delegateName()>;}>
        }
    }

    <if(grammar.delegates)>
    public override void SetState(RecognizerSharedState state)
    {
        base.SetState(state);
        <grammar.delegates:{ g|<g:delegateName()>.SetState(state);}; separator="\n">
    }
    <endif>

    <endif>
    <if(filterMode)>
    <filteringNextToken()>
    <endif>

    [Conditional("ANTLR_TRACE")]
    protected virtual void OnCreated() {}
    [Conditional("ANTLR_TRACE")]

```

```

protected virtual void EnterRule(string ruleName, int ruleIndex) {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

<rules; separator="\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif>;); separator="\n">
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
#endregion

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override IToken NextToken()
{
    while (true)
    {
        if (input.LA(1) == CharStreamConstants.EndOfFile)
        {
            IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default,
input.Index, input.Index);
            eof.Line = Line;
            eof.CharPositionInLine = CharPositionInLine;
            return eof;
        }
        state.token = null;
        state.channel = TokenChannels.Default;
        state.tokenStartCharIndex = input.Index;
        state.tokenStartCharPositionInLine = input.CharPositionInLine;
        state.tokenStartLine = input.Line;

```

```

state.text = null;
try
{
int m = input.Mark();
state.backtracking=1;<! means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if (state.failed)
{
input.Rewind(m);
input.Consume();<! advance one char and try again !>
}
else
{
Emit();
return state.token;
}
}
catch (RecognitionException re)
{
// shouldn't happen in backtracking mode, but...
ReportError(re);
Recover(re);
}
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
if (state.backtracking > 1)
base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if (state.backtracking > 1)
return base.AlreadyParsedRule(input, ruleIndex);

return false;
}
>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

```

```

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="object") ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
internal static readonly string[] tokenNames = new string[] {
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
};
<endif>
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">

<if(grammar.delegates)>
// delegates
<grammar.delegates:
    {g|private <g.recognizerName> <g.delegateName()>;}; separator="\n">
<endif>
<if(grammar.delegators)>
// delegators
<grammar.delegators:
    {g|private <g.recognizerName> <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|private <g.recognizerName> gParent;}>
<endif>

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
{
    base.SetState(state);
    <grammar.delegates:{g|<g.delegateName()>.SetState(state);}; separator="\n">
}

<if(TREE_PARSER)>
public override void SetTreeNodeStream(ITreeNodeStream input)
{
    base.SetTreeNodeStream(input);
    <grammar.delegates:{g|<g.delegateName()>.SetTreeNodeStream(input);}; separator="\n">
}
<endif>
<endif>

<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members()>

```

```

public override string[] TokenNames { get { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
public override string GrammarFileName { get { return "<fileName>"; } }

<members>

[Conditional("ANTLR_TRACE")]
protected virtual void OnCreated() {}
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule(string ruleName, int ruleIndex) {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule(string ruleName, int ruleIndex) {}

#region Rules
<rules; separator="\n">
#endregion Rules

<if(grammar.delegatedRules)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
#region Delegated rules
<grammar.delegatedRules:{ruleDescriptor|
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <return Type(ruleDescriptor)>
<ruleDescriptor.name; format="id"><(ruleDescriptor.parameterScope:parameterScope)>> <!throws
RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return
<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name;
format="id"><(ruleDescriptor.parameterScope.attributes:{a|<a.name; format="id">}; separator=", ">); \}};
separator="\n">
#endregion Delegated rules
<endif>

<insertSynpreds(synpreds)>

<if(cyclicDFAs)>
#region DFA
<cyclicDFAs:{ dfa | private DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
base.InitDFAs();
<cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="\n">
}

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>
#endregion DFA
<endif>

```

```

<if(bitsets)>
#region Follow sets
private static class Follow
{
<bitsets: {it|bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}; separator="\n">
}
#endregion Follow sets
<endif>
}
>>

@genericParser.members() ::= <<
#if ANTLR_DEBUG
private static readonly bool[] decisionCanBacktrack =
new bool[]
{
false, // invalid decision
<grammar.decisions: {d | <d.dfa.hasSynPred>}; wrap="\n", separator=", ">
};
#else
private static readonly bool[] decisionCanBacktrack = new bool[0];
#endif
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType>
input<grammar.delegates: {g|, <g.recognizerName> <g.delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegates: {g|, <g.delegateName()>}>)
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<inputStreamType> input,
RecognizerSharedState state<grammar.delegates: {g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
{g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegates): {p|, <p.delegateName()>}>,
this);}; separator="\n">
<endif>
<if(grammar.indirectDelegates)>
<grammar.indirectDelegates: {g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>};
separator="\n">
<endif>
<if(grammar.delegates)>
<last(grammar.delegates): {g|gParent = <g.delegateName()>};>
<endif>
<parserCtorBody()>
OnCreated();
}

```

```

>>

// imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)><actions.(actionScope).modifier; null="public"><else>public<endif>
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int,
int>[<length(grammar.allImportedRules)>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g.delegateName()> = <g.delegateName()>; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="object",
    superClass={<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Parser
<endif>}, labelType="IToken",
    members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, filterMode, labelType={<ASTLabelType>}, ASTLabelType="object",
    superClass={<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Tree.<
if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif><endif>},
    members={<actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>_fragment() { }

```

```

[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>_fragment() {}

// $ANTLR start <ruleName>
<ruleModifier(grammar,ruleDescriptor)> void
<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(>)
{
    <ruleLabelDefs(>
    EnterRule_<ruleName>_fragment();
    EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);
    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try
    {
        <block>
    }
    finally
    {
        TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);
        LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
        LeaveRule_<ruleName>_fragment();
    }
}
// $ANTLR end <ruleName>
>>

```

```

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

```

```

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
    bool success = false;
    state.backtracking++;
    <@start(>
    try { DebugBeginBacktrack(state.backtracking);
    int start = input.Mark();
    try
    {
        fragment();
    }
    catch ( RecognitionException re )
    {
        System.Console.Error.WriteLine("impossible: "+re);
    }
    success = !state.failed;

```

```

input.Rewind(start);
} finally { DebugEndBacktrack(state.backtracking, success); }
<@stop()>
state.backtracking--;
state.failed=false;
return success;
}
#endregion Synpreds
<endif>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) <returnFromRule()><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; <returnFromRule()> }<endif>
>>

ruleWrapperMap ::= [
"bottomup":{<ruleWrapperBottomup()>},
"topdown":{<ruleWrapperTopdown()>},
default:""
]

ruleWrapperBottomup() ::= <<
<if(TREE_PARSER && filterMode)>
protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Bottomup() { return bottomup(); }
<endif>
>>

ruleWrapperTopdown() ::= <<
<if(TREE_PARSER && filterMode)>
protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Topdown() { return topdown(); }
<endif>
>>

/** How to generate code for a rule. This includes any return type
* data aggregates required for multiple return values.
*/

```

```

rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(ruleDescriptor.returnScope)>

[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>() {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>() {}
<ruleWrapperMap.(ruleName)>
// $ANTLR start "<ruleName>"
// <fileName>:<description>
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleName;
format="id">(<ruleDescriptor.parameterScope:parameterScope(>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp(>
<ruleDeclarations(>
<ruleLabelDefs(>
<ruleDescriptor.actions.init>
try { DebugEnterRule(GrammarFileName, "<ruleName>");
DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
<@preamble(>
try
{
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp(>
<(ruleDescriptor.actions.after):execAction(>
}
<if(exceptions)>
<exceptions: {e|<catch(decl=e.decl,action=e.action)><\n> }>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re)
{
ReportError(re);
Recover(input,re);
<@setErrorReturnValue(>
}
<endif>
<endif>
<endif>

```

```

finally
{
  TraceOut("<ruleName>", <ruleDescriptor.index>);
  LeaveRule("<ruleName>", <ruleDescriptor.index>);
  LeaveRule_<ruleName>();
  <memoize()>
  <ruleScopeCleanUp()>
  <finally>
}
DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
<@postamble()>
<returnFromRule()><\n>
}
// $ANTLR end "<ruleName>"
>>

// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<
<if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>internal<endif>
>>

// imported grammars need to have public return scopes
returnScopeModifier(grammar,ruleDescriptor) ::= <<
<if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>public<endif>
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
  <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(ruleDescriptor)> retval = new <returnType(ruleDescriptor)>();
retval.Start = (<labelType>)input.LT(1);
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name; format="id"> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index;
<endif>

```

>>

```
ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {it|<it>_stack.Push(new <it>_scope());<it>_scopeInit(<it>_stack.Peek());};
separator="\n">
<ruleDescriptor.ruleScope: {it|<it.name>_stack.Push(new
<it.name>_scope());<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>
```

```
ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {it|<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: {it|<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();};
separator="\n">
>>
```

```
ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wil
dcardTreeListLabels]
: {it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n"
>
<ruleDescriptor.tokenListLabels
: {it|List<<labelType>> list_<it.label.text> = null;}; separator="\n"
>
<[ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {it|List<<ASTLabelType>> list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(); separator="\n">
>>
```

```
lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n"
>
<[ruleDescriptor.charListLabels,
ruleDescriptor.charLabels]
: {it|int <it.label.text> = 0;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it|List<<labelType>> list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.charListLabels: {it|List<int> list_<it.label.text> = null;}; separator="\n"
>
>>
```

```

returnFromRule() ::= <%
return
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
  single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
<!!> retval
<endif>
<endif>
<endif>
;
%>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.Stop = (<labelType>)input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<

[Conditional("ANTLR_TRACE")]
protected virtual void EnterRule_<ruleName>() {}
[Conditional("ANTLR_TRACE")]
protected virtual void LeaveRule_<ruleName>() {}

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void
m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(>>)
{
  EnterRule_<ruleName>();
  EnterRule("<ruleName>", <ruleDescriptor.index>);

```

```

TraceIn("<ruleName>", <ruleDescriptor.index>);
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  try
  {
<if(nakedBlock)>
  <ruleMemoization(name=ruleName)>
  <lexerRuleLabelDefs()>
  <ruleDescriptor.actions.init>
  <block>
<else>
  int _type = <ruleName>;
  int _channel = DefaultTokenChannel;
  <ruleMemoization(name=ruleName)>
  <lexerRuleLabelDefs()>
  <ruleDescriptor.actions.init>
  <block>
  <ruleCleanUp()>
  state.type = _type;
  state.channel = _channel;
  <(ruleDescriptor.actions.after):execAction()>
<endif>
  }
  finally
  {
    TraceOut("<ruleName>", <ruleDescriptor.index>);
    LeaveRule("<ruleName>", <ruleDescriptor.index>);
    LeaveRule_<ruleName>();
    <ruleScopeCleanUp()>
    <memoize()>
  }
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<

public override void mTokens()
{
  <block><\n>
}
>>

// S U B R U L E S

```

```

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterSubRule(<decisionNumber>);
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
<alts:{a|altSwitchCase(i,a)}>
}
} finally { DebugExitSubRule(<decisionNumber>); }
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|altSwitchCase(i,a)}>
}
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>

```

```

<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,descriptio
n) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|<altSwitchCase(i,a)>}>
default:
if (cnt<decisionNumber> >= 1)
goto loop<decisionNumber>;

<ruleBacktrackFailure()>
EarlyExitException eee<decisionNumber> = new EarlyExitException( <decisionNumber>, input );
DebugRecognitionException(eee<decisionNumber>);
<@earlyExitException()>
throw eee<decisionNumber>;
}
cnt<decisionNumber>++;
}
loop<decisionNumber>:
;

} finally { DebugExitSubRule(<decisionNumber>); }
<@postloop()>
>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */

```

```

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<
// <fileName>:<description>
<decls>
<@preloop()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, decisionCanBacktrack[<decisionNumber>]);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch ( alt<decisionNumber> )
{
<alts:{a|<altSwitchCase(i,a)>}>
default:
goto loop<decisionNumber>;
}
}

loop<decisionNumber>:
;

} finally { DebugExitSubRule(<decisionNumber>); }
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase(altNum,alt) ::= <<
case <altNum>:
<@prealt()>
DebugEnterAlt(<altNum>);
<alt>
break;<\n>

```

```

>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element(it) ::= <%
<@prematch()>
DebugLocation(<it.line>, <it.pos>);<\n>
<it.el><\n>
%>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label>=<labelType><endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

listLabelElem(label,elem,elemType) ::= <<
if (list_<label>==null) list_<label>=new List<<elemType; null={<labelType>}>\>();
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>

```

```

<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,terminalOptions,elementIndex,postmatchCode="") ::= <<
<if(label)>
<matchSetLabel()>
<endif>
if (<s>)
{
input.Consume();
<postmatchCode>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
DebugRecognitionException(mse);
<@mismatchedSetException()>
<if(LEXER)>
Recover(mse);
throw mse;
<else>
throw mse;
<! use following code to make it recover inline; remove throw mse;
recoverFromMismatchedSet(input,mse,Follow._set_in_<ruleName><elementIndex>);
!>
<endif>
}<\n>
>>

matchSetUnchecked(s,label,elementIndex,postmatchCode=false) ::= <%
<if(label)>
<matchSetLabel()><\n>
<endif>
input.Consume();<\n>
<if(postmatchCode)>
<postmatchCode><\n>

```

```

<endif>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
%>

matchSetLabel() ::= <%
<if(LEXER)>
<label>= input.LA(1);
<else>
<label>=(<labelType>)input.LT(1);
<endif>
%>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
<if(label)>
int <label>Start = CharIndex;<\n>
Match(<string>); <checkRuleBacktrackFailure()><\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
%>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<

```

```

<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope.delegateName()>.<endif><rule.name; format="id">(<args;
separator=", ">);
PopFollow();
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem=label,elemType={<ASTLabelType>},...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<if(scope)><scope.delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()><\n>
<label> = new <labelType>(input, TokenType.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;

```

```

<else>
<if(scope)><scope.delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endif>
%>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
Match(EOF); <checkRuleBacktrackFailure()><\n>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
%>

// used for left-recursive rules
recRuleDefArg()          ::= "int <recRuleArg()>"
recRuleArg()            ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name)    ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1) == TokenType.Down)
{
Match(input, TokenType.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenType.Up, null); <checkRuleBacktrackFailure()>
}
<else>

```

```

Match(input, TokenType.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenType.Up, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>))
{
<ruleBacktrackFailure()>
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);<n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);<n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure

```

```

* loop. If end-of-token (EOT) predicts any of the targets then it
* should act like a default clause (i.e., no error can be generated).
* This is used only in the lexer so that for ('a'* on the end of a rule
* anything other than 'a' predicts exiting.
*/
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt>;<! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>)
{
<targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
<else>

```

```

{
  <ruleBacktrackFailure()>
  NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input, <k>);
  DebugRecognitionException(nvae);
  <@noViableAltException()>
  throw nvae;
}
<endif>
}<\n>
>>

```

```

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
}<\n>
>>

```

```

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
<if(eotPredictsAlt)>
default:
  alt<decisionNumber>=<eotPredictsAlt>;
  break;<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it|case <it>;}; separator="\n">
{
  <targetState>
}
break;
>>

```

// C y c l i c D F A

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

```

```

dfaDecision(decisionNumber,description) ::= <<
try
{

```

```

alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
    throw;
}
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
private class DFA<dfa.decisionNumber> : DFA
{
    private const string DFA<dfa.decisionNumber>_eotS =
        "<dfa.javaCompressedEOT; wrap=\""+\n\t\t\">";
    private const string DFA<dfa.decisionNumber>_eofS =
        "<dfa.javaCompressedEOF; wrap=\""+\n\t\t\">";
    private const string DFA<dfa.decisionNumber>_minS =
        "<dfa.javaCompressedMin; wrap=\""+\n\t\t\">";
    private const string DFA<dfa.decisionNumber>_maxS =
        "<dfa.javaCompressedMax; wrap=\""+\n\t\t\">";
    private const string DFA<dfa.decisionNumber>_acceptS =
        "<dfa.javaCompressedAccept; wrap=\""+\n\t\t\">";
    private const string DFA<dfa.decisionNumber>_specialS =
        "<dfa.javaCompressedSpecial; wrap=\""+\n\t\t\">}>";
    private static readonly string[] DFA<dfa.decisionNumber>_transitionS =
        {
            <dfa.javaCompressedTransition:{s|"<s; wrap=\""+\n\t\t\">"}; separator=",\n">
        };

    private static readonly short[] DFA<dfa.decisionNumber>_eot =
        DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
    private static readonly short[] DFA<dfa.decisionNumber>_eof =
        DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
    private static readonly char[] DFA<dfa.decisionNumber>_min =
        DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
    private static readonly char[] DFA<dfa.decisionNumber>_max =
        DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
    private static readonly short[] DFA<dfa.decisionNumber>_accept =
        DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
    private static readonly short[] DFA<dfa.decisionNumber>_special =

```

```

DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
    int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
    DFA<dfa.decisionNumber>_transition = new short[numStates][];
    for ( int i=0; i < numStates; i++ )
    {
        DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
    }
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif> )
<if(dfa.specialStateSTs)>
    : base(specialStateTransition)
<endif>
{
    this.recognizer = recognizer;
    this.decisionNumber = <dfa.decisionNumber>;
    this.eot = DFA<dfa.decisionNumber>_eot;
    this.eof = DFA<dfa.decisionNumber>_eof;
    this.min = DFA<dfa.decisionNumber>_min;
    this.max = DFA<dfa.decisionNumber>_max;
    this.accept = DFA<dfa.decisionNumber>_accept;
    this.special = DFA<dfa.decisionNumber>_special;
    this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
}
}<\n>
<if(dfa.specialStateSTs)>
private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)<! throws
NoViableAltException!>
{
    <if(LEXER)>
    IIntStream input = _input;
    <endif>
    <if(PARSER)>
    ITokenStream input = (ITokenStream)_input;
    <endif>

```

```

<if(TREE_PARSER)>
ITreeNodeStream input = (ITreeNodeStream)_input;
<endif>
int _s = s;
s = -1;
<! pull these outside the switch cases to save space on locals !>
int LA<dfa.decisionNumber>_1 = input.LA(1);
int index<dfa.decisionNumber>_1 = input.Index;
switch (_s)
{
<dfa.specialStateSTs:{state |case <i0>:<! compressed special state numbers 0..n-1 !>
<state>}; separator="\n">

default:
break;
}

if (s >= 0)
return s;

<if(backtracking)>
if (state.backtracking > 0) { state.failed=true; return -1;}
<endif>
NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
dfa.Error(nvae);
throw nvae;
}
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFASState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{
<if(semPredState)>
<! get next lookahead symbol to test edges, then rewind !>
input.Rewind();
<endif>
<edges; separator="\nelse ">
<if(semPredState)>
<! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_1);
<endif>
break;
}
>>

```

```

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr><if(predicates)> && (<predicates><endif>) {s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<operands; separator=\\|\\>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<k>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<k><ge()><lower> && LA<decisionNumber>_<k><le()><upper>)
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::=
"(input.LA(<k><ge()><lower> && input.LA(<k><le()><upper>)"

le() ::= "\<="
ge() ::= ">="

setTest(ranges) ::= <<
<ranges; separator=\\|\\>
>>

```

```
// A T T R I B U T E S
```

```
attributeScope(scope) ::= <<
<if(scope.attributes)>
protected sealed partial class <scope.name>_scope
{
  <scope.attributes:{it|public <it.decl>;}; separator="\n">
}
<if(scope.actions.scopeinit)>
protected void <scope.name>_scopeInit( <scope.name>_scope scope )
{
  <scope.actions.scopeinit>
}
<else>
protected virtual void <scope.name>_scopeInit( <scope.name>_scope scope ) {}
<endif>
<if(scope.actions.scopeafter)>
protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
  <scope.actions.scopeafter>
}
<else>
protected virtual void <scope.name>_scopeAfter( <scope.name>_scope scope ) {}
<endif>
protected readonly ListStack<<scope.name>_scope> <scope.name>_stack = new
ListStack<<scope.name>_scope>();
<endif>
>>
```

```
globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>
```

```
ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>
```

```
returnStructName(it) ::= "<it.name>_return"
```

```
returnType(ruleDescriptor) ::= <%
<if(ruleDescriptor.returnScope.attributes && ruleDescriptor.hasMultipleReturnValues)>
  <ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<elseif(ruleDescriptor.hasMultipleReturnValues)>
  <ruleReturnBaseType()>
<elseif(ruleDescriptor.hasSingleReturnValue)>
  <ruleDescriptor.singleValueReturnType>
<else>
  void
```

```

<endif>
%>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<ruleReturnBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
%>

delegateName(it) ::= <<
<if(it.label)><it.label><else>g<it.name><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) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;
%>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(scope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<returnScopeModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> sealed partial class
<ruleDescriptor:returnStructName()> : <ruleReturnBaseType()><@ruleReturnInterfaces()>
{
<scope.attributes:{it|public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
}
<endif>
>>

```

```

ruleReturnBaseType() ::= <%
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<labelType>>
%>

@returnScope.ruleReturnMembers() ::= <<
>>

parameterScope(scope) ::= <<
<scope.attributes:{it|<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= <<
<attr.name; format="id">
>>

parameterSetAttributeRef(attr,expr) ::= <<
<attr.name; format="id"> =<expr>;
>>

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">
<else>
<if(index)>
<scope>_stack[<index>].<attr.name; format="id">
<else>
<scope>_stack.Peek().<attr.name; format="id">
<endif>
<endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id"> = <expr>;
<else>
<if(index)>
<scope>_stack[<index>].<attr.name; format="id"> = <expr>;
<else>
<scope>_stack.Peek().<attr.name; format="id"> = <expr>;
<endif>
<endif>
%>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {<function.Count>0 && <function::name.Equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

```

```

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?((<returnType(referencedRule)><scope>).<attr.name; format="id">:<initValue(attr.type)>
<else>
<scope>
<endif>
%>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id">
<else>
<attr.name; format="id">
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id"> =<expr>;
<else>
<attr.name; format="id"> =<expr>;
<endif>
%>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.Text:default(string))"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.Type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.Line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.Channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.TokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int.Parse(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.Start):default(<labelType>))"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?((<labelType><scope>.Stop):default(<labelType>))"
ruleLabelPropertyRef_tree(scope,attr) ::=
"(<scope>!=null?((<ASTLabelType><scope>.Tree):default(<ASTLabelType>))"

```

```

ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
(<scope>!=null?(input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start)):default(string))
<else>
(<scope>!=null?input.ToString(<scope>.Start,<scope>.Stop):default(string))
<endif>
%>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.Template:null"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"(<scope>!=null?<scope>.Type:0)"

lexerRuleLabelPropertyRef_line(scope,attr) ::=
"(<scope>!=null?<scope>.Line:0)"

lexerRuleLabelPropertyRef_pos(scope,attr) ::=
"(<scope>!=null?<scope>.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"(<scope>!=null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope,attr) ::=
"(<scope>!=null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope,attr) ::=
"(<scope>!=null?<scope>.Text:default(string))"

lexerRuleLabelPropertyRef_int(scope,attr) ::=
"(<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.Start"
rulePropertyRef_stop(scope,attr) ::= "retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "retval.Tree"
rulePropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<else>
input.ToString(retval.Start,input.LT(-1))
<endif>

```

```

%>
rulePropertyRef_st(scope,attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.Template =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
<if(backtracking)>
if (<actions.(actionScope).synpredgate><\n>
{<\n>
<@indentedAction()><\n>
}
<else>
<action>
<endif>
%>

@execAction.indentedAction() ::= <<
<action>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] {<words64: {it|<it>UL};separator=",">});
>>

codeFileExtension() ::= ".cs"

true_value() ::= "true"
false_value() ::= "false"

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/CSharp2/CSharp2.stg
```

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```
*/
```

```
/** Templates for building ASTs during tree parsing.
```

```
*
```

```
* Deal with many combinations. Dimensions are:
```

```
* Auto build or rewrite
```

```
* no label, label, list label (label/no-label handled together)
```

```
* child, root
```

```
* token, set, rule, wildcard
```

```
*
```

```
* Each combination has its own template except that label/no label
```

```
* is combined into tokenRef, ruleRef, ...
```

```
*/
```

```
group ASTTreeParser;
```

```

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_First[0] := nil;
_Last := nil;<\n>
>>

ruleDeclarationVars() ::= <<
<super.ruleDeclarationVars()>
_First, _Save_Last: array [0..63] of I<ASTLabelType>;
_Last: I<ASTLabelType>;
>>

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if (State.Backtracking = 0) then
begin<endif>
<if(rewriteMode)>
RetVal.Tree := _First[0] as I<ASTLabelType>;
if (Adaptor.GetParent(RetVal.Tree) \<\> nil) and (Adaptor.IsNil(Adaptor.GetParent(RetVal.Tree))) then
RetVal.Tree := Adaptor.GetParent(RetVal.Tree) as I<ASTLabelType>;
<endif>
<if(backtracking)>end;<endif>
>>

/** match ^(root children) in tree parser; override here to
* add tree construction actions.
*/
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
begin
_Save_Last[<treeLevel>] := _Last;
_First[<treeLevel>] := nil;
<if(!rewriteMode)>
Root[<treeLevel>] := Adaptor.GetNilNode as I<ASTLabelType>;<\n>
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(root.el.rule)>
if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>.Tree;
<else>
if (_First[<enclosingTreeLevel>] = nil) then _First[<enclosingTreeLevel>] := <root.el.label>;
<endif>

```

```

<endif>
  <actionsAfterRoot:element()>
<if(nullableChildList)>
  if (Input.LA(1) = TToken.DOWN) then
  begin
    Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
  end;
<else>
  Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
  <children:element()>
  Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
  Adaptor.AddChild(Root[<enclosingTreeLevel>], Root[<treeLevel>]);
<endif>
  _Last := _Save_Last[<treeLevel>];
end;<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
  _Last := Input.LT(1) as I<ASTLabelType>;
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>
  if (State.Backtracking = 0) then
  begin<\n>
  <endif>
  <if(terminalOptions.node)>
  <label>_tree := T<terminalOptions.node>.Create(<label>);
  <else>
  <label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
  <endif><\n>
  Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
  <if(backtracking)>
  end;

```

```

<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin
<endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(terminalOptions.node)>

```

```

<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Adaptor.AddChild(Root[<treeLevel>], <label>_tree);
<if(backtracking)>end;<endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then begin <endif>
<if(terminalOptions.node)>
<label>_tree := T<terminalOptions.node>.Create(<label>);
<else>
<label>_tree := Adaptor.DupNode(<label>) as I<ASTLabelType>;
<endif><\n>
Root[<treeLevel>] := Adaptor.BecomeRoot(<label>_tree, Root[<treeLevel>]) as I<ASTLabelType>;
<if(backtracking)>end;<endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>
<if(!rewriteMode)>
Adaptor.AddChild(Root[<treeLevel>], <label>.Tree);
<else> <! rewrite mode !>
if (_First[<treeLevel>] = nil) then _First[<treeLevel>] := <label>.Tree;

```

```

<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (State.Backtracking = 0) then <endif>Root[<treeLevel>] :=
Adaptor.BecomeRoot(<label>.Tree, Root[<treeLevel>]) as I<ASTLabelType>;
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".Tree",...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_Last := Input.LT(1) as I<ASTLabelType>;
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

```

```

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
<if(terminalOptions.node)>
T<terminalOptions.node>.Create((Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode)
<else>
(Locals['Stream_<token>'] as IRewriteRuleElementStream).NextNode
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>
if (State.Backtracking = 0) then
begin<\n>
<endif>
RetVal.Tree := Adaptor.RulePostProcessing(Root[0]) as I<ASTLabelType>;
<if(backtracking)>
end;
<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Delphi/ASTTreeParser.stg

```

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```

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\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ToolSTGroupFile.java

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\*/

/\*

New style messages. 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.

\*/

```
group gnu;

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

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

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

wantsSingleLineMessage() ::= "true"
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/templates/messages/formats/gnu.stg
```

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```

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```
*/
```

```
@genericParserHeaderFile.memVars() ::= <<
```

```
/* AST parserHeaderFile.memVars */
```

```
NSInteger ruleLevel;
```

```
NSArray *ruleNames;
```

```
<@super.memVars()> /* AST super.memVars */
```

```

<parserMemVars()> /* AST parserMemVars */
>>

@genericParserHeaderFile.properties() ::= <<
/* AST parserHeaderFile.properties */
<@super.properties()> /* AST super.properties */
<parserProperties()> /* AST parserproperties */
>>

@genericParserHeaderFile.methodsDecl() ::= <<
/* AST parserHeaderFile.methodsDecl */
<@super.methodsDecl()> /* AST super.methodsDecl */
<parserMethodsDecl()> /* AST parsermethodsDecl */
>>

@genericParser.synthesize() ::= <<
/* AST genericParser.synthesize */
<@super.synthesize()>
<parserSynthesize()>
>>

@genericParser.methods() ::= <<
/* AST genericParser.methods */
<@super.methods()>
<parserMethods()>
>>

/* additional init code for tree support */
@genericParser.init() ::= <<
/* AST genericParser.init */
<@super.init()>
[self setTreeAdaptor:[[CommonTreeAdaptor newTreeAdaptor] retain]];
>>

@genericParser.dealloc() ::= <<
/* AST genericParser.dealloc */
[self setTreeAdaptor:nil];
<@super.dealloc()>
>>

/* Add an adaptor property that knows how to build trees */
parserMemVars() ::= <<
/* AST parserMemVars */
id<TreeAdaptor> treeAdaptor;
>>

/* Add an adaptor property that knows how to build trees */
parserProperties() ::= <<

```

```

/* AST parserProperties */
@property (retain, getter=getTreeAdaptor, setter=setTreeAdaptor:) id<TreeAdaptor> treeAdaptor;
>>

/** Declaration of additional tree support methods - go in interface of parserHeaderFile() */
parserMethodsDecl() ::= <<
/* AST parserMethodsDecl */
- (id<TreeAdaptor>) getTreeAdaptor;
- (void) setTreeAdaptor:(id<TreeAdaptor>)theTreeAdaptor;
>>

/* Add an adaptor property that knows how to build trees */
parserSynthesize() ::= <<
/* AST parserProperties */
@synthesize treeAdaptor;
>>

/** Definition of addition tree support methods - go in implementation of genericParser() */
parserMethods() ::= <<
/* AST parserMethods */
- (id<TreeAdaptor>) getTreeAdaptor
{
    return treeAdaptor;
}

- (void) setTreeAdaptor:(id<TreeAdaptor>)aTreeAdaptor
{
    if (aTreeAdaptor != treeAdaptor) {
        treeAdaptor = aTreeAdaptor;
    }
}
>>

/** addition memVars for returnscopes */
@returnScopeInterface.memVars() ::= <<
/* AST returnScopeInterface.memVars */
<recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope properties */
@returnScopeInterface.properties() ::= <<
/* AST returnScopeInterface.properties */
@property (retain, getter=getTree, setter=setTree:) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope methodsDecl */
@returnScopeInterface.methodsDecl() ::= <<
/* AST returnScopeInterface.methodsDecl */

```

```

- (<recognizer.ASTLabelType; null="CommonTree"> *)getTree;<\n>
- (void) setTree:(<recognizer.ASTLabelType; null="CommonTree"> *)aTree;<\n>
>>

/** the implementation of returnScope synthesize */
@returnScopeImplementation.synthesize() ::= <<
/* AST returnScope.synthesize */
@synthesize tree;
>>

/** the implementation of returnScope methods */
@returnScopeImplementation.methods() ::= <<
/* AST returnScope.methods */
- (<ASTLabelType> *)getTree
{
    return tree;
}

- (void) setTree:(<ASTLabelType> *)aTree
{
    if (tree != aTree) {
        if (tree != nil) [tree release];
        if (aTree != nil) [aTree retain];
        tree = aTree;
    }
}

- (void) dealloc
{
    self.tree = nil;
    [super dealloc];
}

>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
/* AST ruleDeclarations */
<super.ruleDeclarations()>
<ASTLabelType> *root_0 = nil;<\n>
>>

ruleLabelDefs() ::= <<
/* AST ruleLabelDefs */
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{it | <ASTLabelType> *<it.label.text>_tree=nil;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> *<it.label.text>_tree = nil;}; separator="\n">

```

```

<ruleDescriptor.allTokenRefsInAltsWithRewrites:{it | RewriteRuleTokenStream *stream_<it> =
  [[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor
    description:@"token <it>"] retain];}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites:{it | RewriteRuleSubtreeStream *stream_<it> =
  [[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
    description:@"rule <it>"] retain];}; separator="\n">
>>

```

```

ruleCleanup() ::= <<
/* AST ruleCleanup */
<super.ruleCleanup()>
<[ruleDescriptor.allTokenRefsInAltsWithRewrites,ruleDescriptor.allRuleRefsInAltsWithRewrites]:{it |
[stream_<it> release];}; separator="\n">
<!
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(backtracking)>if ( state.backtracking == 0 ) {<\n>
<endif>
  [<prevRuleRootRef()> setTree:(<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0]];<\n>
  [treeAdaptor setTokenBoundaries:[<prevRuleRootRef()> getTree]
    From:[<prevRuleRootRef()> getStart]
    To:[<prevRuleRootRef()> getStop]];<\n>
<if(backtracking)>}<\n>
<endif>
<endif>
[root_0 release];
!>
>>

```

```

rewriteCodeLabelsCleanup() ::= <<
/* AST rewriteCodeLabelsCleanup */
<referencedTokenLabels:{it | [stream_<it> release];}; separator="\n">
<referencedTokenListLabels:{it | [stream_<it> release];}; separator="\n">
<referencedRuleLabels:{it | [stream_<it> release];}; separator="\n">
<referencedRuleListLabels:{it | [stream_<it> release];}; separator="\n">
>>

```

```

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */

```

```

@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType> *)[[[treeAdaptor class] newEmptyTree] retain];<\n>
<endif>
<endif>

```

```

<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...)> !>
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) <endif>
  [stream_<token> addElement:<label>];<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex) ::= <<
<! <super.tokenRef(...)> !>
<tokenRefBang(...)>
<if(backtracking)>
if ( !<actions.(actionScope).synpredgate> ) <endif>
  [stream_<token> addElement:<label>];<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
[stream_<rule.name> addElement:[<label> getTree]];
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(elem=[<label> getTree]),...>

```

```

>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<! <super.ruleRefRuleRoot(...)> !>
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
  [stream_<rule.name> addElement:[<label> getTree]];<\n>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(elem={ [<label> getTree] },...)>
>>

// R e w r i t e

rewriteCode(
  alts, description,
  referencedElementsDeep, // ALL referenced elements to right of ->
  referencedTokenLabels,
  referencedTokenListLabels,
  referencedRuleLabels,
  referencedRuleListLabels,
  referencedWildcardLabels,
  referencedWildcardListLabels,
  rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<\n>
<endif>
<prevRuleRootRef()>.tree = root_0;<\n>
<rewriteCodeLabels()>
root_0 = (<ASTLabelType> *)[[[treeAdaptor class] newEmptyTree] retain];<\n>
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)[treeAdaptor rulePostProcessing:root_0];

```

```

[input replaceChildren:[treeAdaptor getParent:retval.start]
  From:[treeAdaptor getChildIndex:retval.start]
  To:[treeAdaptor getChildIndex:_last]
  With:retval.tree];
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>.tree = root_0;<\n>
<else>
<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;<\n>
<endif>
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{it | RewriteRule<rewriteElementType>Stream *stream_<it> =
  [[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor
description:@ "token <it>" element:<it>] retain];};
  separator="\n"
>
<referencedTokenListLabels:{it | RewriteRule<rewriteElementType>Stream *stream_<it> =
  [[RewriteRule<rewriteElementType>Stream newRewriteRule<rewriteElementType>Stream:treeAdaptor
  description:@ "token <it>" elements:list_<it>] retain];};
  separator="\n"
>
<referencedWildcardLabels:{it | RewriteRuleSubtreeStream stream_<it> =
  [[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
  description:"wildcard <it>" element:<it>] retain];};
  separator="\n"
>
<referencedWildcardListLabels:{it | RewriteRuleSubtreeStream stream_<it> =
  [[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
  descriptor:"wildcard <it>" elements:list_<it>] retain];};
  separator="\n"
>
<referencedRuleLabels:{it | RewriteRuleSubtreeStream *stream_<it> =
  [[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor
  description:@ "token <it>" element:<it>!=nil?[<it> getTree]:nil] retain];};
  separator="\n"
>
<referencedRuleListLabels:{it | RewriteRuleSubtreeStream *stream_<it> =
  [[RewriteRuleSubtreeStream newRewriteRuleSubtreeStream:treeAdaptor

```

```

        description:@"token <it>" elements:list_<it>] retain];};
        separator="\n"
    >
    >>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | [stream_<el> hasNext]}; separator="||"> ) {
    <alt>
}
<referencedElementsDeep:{el | [stream_<el> reset];<\n>}>
>>

rewriteClosureBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | [stream_<el> hasNext]}; separator="||"> ) {
    <alt>
}
<referencedElements:{el | [stream_<el> reset];<\n>}>
>>

rewritePositiveClosureBlock(
    alt,rewriteBlockLevel,
    referencedElementsDeep, // all nested refs
    referencedElements, // elements in immediately block; no nested blocks
    description) ::=
<<
// <fileName>:<description>
{
if ( !(<referencedElements:{el | [stream_<el> hasNext]}; separator=" || ">) ) {
    @throw [RewriteEarlyExitException newException];
}
while ( <referencedElements:{el | [stream_<el> hasNext]}; separator=" || "> ) {
    <alt>
}
}

```

```

<referencedElements:{el | [stream_<el> reset];<\n>}>
}
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>
<endif>
>>

```

```

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = nil;"

```

```

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
  <ASTLabelType> *root_<treeLevel> = (<ASTLabelType> *)[[[treeAdaptor class] newEmptyTree] retain];
  <root:rewriteElement()>
  <children:rewriteElement()>
  [treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
}<\n>
>>

```

```

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

```

```

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

```

```

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
// TODO: args: <args; separator=", ">
[treeAdaptor addChild:<createRewriteNodeFromElement(...)> toTree:root_<treeLevel>];<\n>
>>

```

```

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
[treeAdaptor addChild:[stream_<label> nextNode] toTree:root_<treeLevel>];<\n>
>>

```

```

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
[treeAdaptor addChild:[stream_<label> nextNode] toTree:root_<treeLevel>];<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createRewriteNodeFromElement(...)>
old:root_<treeLevel>];<\n>
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
[treeAdaptor addChild:<createImaginaryNode(tokenType=token, ...)> toTree:root_<treeLevel>];<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createImaginaryNode(tokenType=token, ...)>
old:root_<treeLevel>];<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
[treeAdaptor addChild:[stream_<rule> nextTree] toTree:root_<treeLevel>];<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:(id<Tree>)](stream_<rule> nextNode]
old:root_<treeLevel>];<\n>

```

```

>>

rewriteNodeAction(action) ::= <<
[treeAdaptor addChild:<action> toTree:root_<treeLevel>];<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<action> old:root_<treeLevel>];<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:[stream_<label> nextNode]
old:root_<treeLevel>];<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
[treeAdaptor addChild:[stream_<label> nextTree] toTree:root_<treeLevel>];<\n>
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
  [<terminalOptions.node> new<terminalOptions.node>:<tokenType> <if(args)>, <args; separator=", "><endif>]
<else>
  <if(args)>
    [[treeAdaptor createTree:<tokenType> <if(first(args))>FromToken:<first(args)><endif>
<if(first(rest(args)))>Text:<first(rest(args))><else>Text:@ "<tokenType>"<endif>] retain]
  <else>
    [[treeAdaptor createTree:<tokenType> Text:@ "<tokenType>"] retain]
  <endif>
<endif>
>>

```

```

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
  [<terminalOptions.node> new<terminalOptions.node>:[stream_<token> nextToken]<if(args)>, <args;
separator=", "><endif>]
<else>
  <if(args)> <! must create new node from old !>
    [[treeAdaptor createTree:<token> Text:<first(rest(args))> <args; separator=", ">] retain]
  <else>
    [stream_<token> nextNode]
  <endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/AST.stg
No license file was found, but licenses were detected in source scan.

```

```

/*
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```

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THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

```

```

*/

```

```

/** Template overrides to add debugging to AST stuff. Dynamic inheritance

```

```

* hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.

```

```

*/
parserMembers() ::= <<
DebugTreeAdaptor *adaptor = [DebugTreeAdaptor newTreeAdaptor:(id)dbg Adaptor:[CommonTreeAdaptor
newTreeAdaptor]];

// fix this
- (void) setTreeAdaptor:(id<TreeAdaptor>)anAdaptor
{
    adaptor = [DebugTreeAdaptor newTreeAdaptor:dbg Adaptor:anAdaptor];
<if(grammar.grammarIsRoot)>
    adaptor = [DebugTreeAdaptor newTreeAdaptor:adaptor withDBG:dbg];
<else>
    adaptor = (DebugTreeAdaptor *)adaptor; // delegator sends dbg adaptor
<endif><\n>
    <grammar.directDelegates:{g[<g.delegateName()> setTreeAdaptor:adaptor];}>
}

- (id<TreeAdaptor>)getTreeAdaptor
{
    return adaptor;
}<\n>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
    [DebugEventSocketProxy newDebugEventSocketProxy:self, port, <if(TREE_PARSER)>[input
getTreeAdaptor]<else>adaptor<endif>];
[self setDebugListener:proxy];
[self set<inputStreamType>:[Debug<inputStreamType> newDebug<inputStreamType>:input with:proxy]];
try {
    [proxy handshake];
}
@catch (IOException *ioe) {
    [self reportError:ioe];
}
>>

@ctorForRootGrammar.finally() ::= <<
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];
[self setTreeAdaptor:adap];
[proxy setTreeAdaptor:adap];
>>

@ctorForProfilingRootGrammar.finally() ::= <<

```

```
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];  
[self setTreeAdaptor:adap];  
[proxy setTreeAdaptor:adap];  
>>
```

```
@ctorForPredefinedListener.superClassRef() ::= @"super(input, dbg);"
```

```
@ctorForPredefinedListener.finally() ::=<<<  
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>  
CommonTreeAdaptor *adap = [CommonTreeAdaptor newTreeAdaptor];  
[self setTreeAdaptor:adap];<\n>  
<endif>  
>>
```

```
@treeParserHeaderFile.superClassName ::= "DebugTreeParser"
```

```
@rewriteElement.pregen() ::= "[debugListener locationLine:<e.line> column:<e.pos>];"
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/ObjC/ASTDbg.stg
```

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```
/*
```

```
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```

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http://www.temporal-wave.com
```

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http://www.linkedin.com/in/jimidle
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\*/

/\*

\* This code generating template and the associated C runtime was produced by:

\* Jim Idle jim|hereisanat|idle|dotgoeshere|ws.

\* If it causes the destruction of the Universe, it will be pretty cool so long as

\* I am in a different one at the time.

\*/

cTypeInitMap ::= [

"int" : "0", // Integers start out being 0

"long" : "0", // Longs start out being 0

"float" : "0.0", // Floats start out being 0

"double" : "0.0", // Doubles start out being 0

"ANTLR3\_BOOLEAN" : "ANTLR3\_FALSE", // Booleans start out being Antlr C for false

"byte" : "0", // Bytes start out being 0

"short" : "0", // Shorts start out being 0

"char" : "0" // Chars start out being 0

]

leadIn(type) ::=

<<

/\*\* \file

\* This <type> file was generated by \$ANTLR version <ANTLRVersion>

\*

\* - From the grammar source file : <fileName>

\* - On : <generatedTimestamp>

<if(LEXER)>

\* - for the lexer : <name>Lexer

<endif>

<if(PARSER)>

\* - for the parser : <name>Parser

<endif>

<if(TREE\_PARSER)>

\* - for the tree parser : <name>TreeParser

<endif>

\*

\* Editing it, at least manually, is not wise.

\*

\* C language generator and runtime by Jim Idle, jim|hereisanat|idle|dotgoeshere|ws.

\*

\*

>>

/\*\* The overall file structure of a recognizer; stores methods for rules

```

* and cyclic DFAs plus support code.
*/
outputFile( LEXER,
            PARSEr,
            TREE_PARSEr,
            actionScope,
            actions,
            docComment,
            recognizer,
            name,
            tokens,
            tokenNames,
            rules,
            cyclicDFAs,
            bitsets,
            buildTemplate,
            buildAST,
            rewriteMode,
            profile,
            backtracking,
            synpreds,
            memoize,
            numRules,
            fileName,
            ANTLRVersion,
            generatedTimestamp,
            trace,
            scopes,
            superClass,
            literals
            ) ::=
<<
<leadIn("C source")>
*/
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// http://www.linkedin.com/in/jimidle
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```
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// THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
<if(actions.(actionScope).header)>
```

```
/* =====
```

```
* This is what the grammar programmer asked us to put at the top of every file.
```

```
*/
```

```
<actions.(actionScope).header>
```

```
/* End of Header action.
```

```
* =====
```

```
*/
```

```
<endif>
```

```
/* -----
```

```
* Include the ANTLR3 generated header file.
```

```
*/
```

```
#include "<name>.h"
```

```
<actions.(actionScope).postinclude>
```

```
/* ----- */
```

```
<docComment>
```

```
<if(literals)>
```

```
/** String literals used by <name> that we must do things like MATCHS() with.
```

```
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
```

```
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
```

```
* we perform this little trick of defining the literals as arrays of UINT32
```

```
* and passing in the address of these.
```

```
*/
```

```
<literals:{it | static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">
```

```
<endif>
```

```

/* MACROS that hide the C interface implementations from the
* generated code, which makes it a little more understandable to the human eye.
* I am very much against using C pre-processor macros for function calls and bits
* of code as you cannot see what is happening when single stepping in debuggers
* and so on. The exception (in my book at least) is for generated code, where you are
* not maintaining it, but may wish to read and understand it. If you single step it, you know that input()
* hides some indirect calls, but is always referring to the input stream. This is
* probably more readable than ctx->input->istream->input(snarfle0->blarg) and allows me to rejig
* the runtime interfaces without changing the generated code too often, without
* confusing the reader of the generated output, who may not wish to know the gory
* details of the interface inheritance.
*/

#define CTX ctx

/* Aids in accessing scopes for grammar programmers
*/
#undef SCOPE_TYPE
#undef SCOPE_STACK
#undef SCOPE_TOP
#define SCOPE_TYPE(scope) p<name>_##scope##_SCOPE
#define SCOPE_STACK(scope) p<name>_##scope##_Stack
#define SCOPE_TOP(scope) ctx->p<name>_##scope##_Top
#define SCOPE_SIZE(scope) ctx->p<name>_##scope##_Stack_limit
#define SCOPE_INSTANCE(scope, i) (ctx->SCOPE_STACK(scope)->get(ctx->SCOPE_STACK(scope),i))

<if(LEXER)>

/* Macros for accessing things in a lexer
*/
#undef LEXER
#undef RECOGNIZER
#undef RULEMEMO
#undef GETCHARINDEX
#undef GETLINE
#undef GETCHARPOSITIONINLINE
#undef EMIT
#undef EMITNEW
#undef MATCHC
#undef MATCHS
#undef MATCHRANGE
#undef LTOKEN
#undef HASFAILED
#undef FAILEDFLAG
#undef INPUT
#undef STRSTREAM
#undef LA

```

```

#undef  HASEXCEPTION
#undef  EXCEPTION
#undef  CONSTRUCTEX
#undef  CONSUME
#undef  LRECOVER
#undef  MARK
#undef  REWIND
#undef  REWINDLAST
#undef  BACKTRACKING
#undef  MATCHANY
#undef  MEMOIZE
#undef  HAVEPARSEDRULE
#undef  GETTEXT
#undef  INDEX
#undef  SEEK
#undef  PUSHSTREAM
#undef  POPSTREAM
#undef  SETTEXT
#undef  SETTEXT8

#define  LEXER    ctx->pLexer
#define  RECOGNIZER  LEXER->rec
#define  LEXSTATE  RECOGNIZER->state
#define  TOKSOURCE  LEXSTATE->tokSource
#define  GETCHARINDEX()  LEXER->getCharIndex(LEXER)
#define  GETLINE()  LEXER->getLine(LEXER)
#define  GETTEXT()  LEXER->getText(LEXER)
#define  GETCHARPOSITIONINLINE()  LEXER->getCharPositionInLine(LEXER)
#define  EMIT()  LEXSTATE->type = _type; LEXER->emit(LEXER)
#define  EMITNEW(t)  LEXER->emitNew(LEXER, t)
#define  MATCHC(c)  LEXER->matchc(LEXER, c)
#define  MATCHS(s)  LEXER->matchs(LEXER, s)
#define  MATCHRANGE(c1,c2)  LEXER->matchRange(LEXER, c1, c2)
#define  MATCHANY()  LEXER->matchAny(LEXER)
#define  LTOKEN  LEXSTATE->token
#define  HASFAILED()  (LEXSTATE->failed == ANTLR3_TRUE)
#define  BACKTRACKING  LEXSTATE->backtracking
#define  FAILEDFLAG  LEXSTATE->failed
#define  INPUT  LEXER->input
#define  STRSTREAM  INPUT
#define  ISTREAM  INPUT->istream
#define  INDEX()  ISTREAM->index(ISTRREAM)
#define  SEEK(n)  ISTREAM->seek(ISTRREAM, n)
#define  EOF_TOKEN  &(LEXSTATE->tokSource->eofToken)
#define  HASEXCEPTION()  (LEXSTATE->error == ANTLR3_TRUE)
#define  EXCEPTION  LEXSTATE->exception
#define  CONSTRUCTEX()  RECOGNIZER->exConstruct(RECOGNIZER)
#define  LRECOVER()  LEXER->recover(LEXER)

```

```

#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define MEMOIZE(ri,si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define PUSHSTREAM(str) LEXER->pushCharStream(LEXER, str)
#define POPSTREAM() LEXER->popCharStream(LEXER)
#define SETTEXT(str) LEXSTATE->text = str
#define SKIP() LEXSTATE->token = &(TOKSOURCE->skipToken)
#define USER1 LEXSTATE->user1
#define USER2 LEXSTATE->user2
#define USER3 LEXSTATE->user3
#define CUSTOM LEXSTATE->custom
#define RULEMEMO LEXSTATE->ruleMemo
#define DBG RECOGNIZER->debugger

/* If we have been told we can rely on the standard 8 bit or UTF16 input
 * stream, then we can define our macros to use the direct pointers
 * in the input object, which is much faster than indirect calls. This
 * is really only significant to lexers with a lot of fragment rules (which
 * do not place LA(1) in a temporary at the moment) and even then
 * only if there is a lot of input (order of say 1M or so).
 */
#if defined(ANTLR3_INLINE_INPUT_8BIT) || defined(ANTLR3_INLINE_INPUT_UTF16)

# ifdef ANTLR3_INLINE_INPUT_8BIT

/* 8 bit character set */

# define NEXTCHAR ((pANTLR3_UINT8)(INPUT->nextChar))
# define DATAP ((pANTLR3_UINT8)(INPUT->data))

# else

# define NEXTCHAR ((pANTLR3_UINT16)(INPUT->nextChar))
# define DATAP ((pANTLR3_UINT16)(INPUT->data))

# endif

# define LA(n) ((NEXTCHAR + n) > (DATAP + INPUT->sizeBuf) ? ANTLR3_CHARSTREAM_EOF :
(ANTLR3_UCHAR)*(NEXTCHAR + n - 1))
# define CONSUME() //
{ //
if (NEXTCHAR < (DATAP + INPUT->sizeBuf)) //
{ //
INPUT->charPositionInLine++; //
if ((ANTLR3_UCHAR)*NEXTCHAR == INPUT->newlineChar) //
{ //

```

```

        INPUT->line++;
        INPUT->charPositionInLine = 0;
        INPUT->currentLine = (void*)(NEXTCHAR + 1);
    }
    INPUT->nextChar = (void*)(NEXTCHAR + 1);
}

#else

// Pick up the input character by calling the input stream implementation.
//
#define CONSUME() INPUT->istream->consume(INPUT->istream)
#define LA(n) INPUT->istream->_LA(INPUT->istream, n)

#endif
<endif>

<if(PARSER)>
/* Macros for accessing things in the parser
*/

#undef PARSER
#undef RECOGNIZER
#undef HAVEPARSEDRULE
#undef MEMOIZE
#undef INPUT
#undef STRSTREAM
#undef HASEXCEPTION
#undef EXCEPTION
#undef MATCHT
#undef MATCHANYT
#undef FOLLOWSTACK
#undef FOLLOWPUSH
#undef FOLLOWPOP
#undef PRECOVER
#undef PREPORTERROR
#undef LA
#undef LT
#undef CONSTRUCTEX
#undef CONSUME
#undef MARK
#undef REWIND
#undef REWINDLAST
#undef PERRORRECOVERY
#undef HASFAILED
#undef FAILEDFLAG
#undef RECOVERFROMMISMATCHEDSET

```

```

#undef RECOVERFROMMISMATCHEDELEMENT
#undef INDEX
#undef ADAPTOR
#undef SEEK
#undef RULEMEMO
#undef DBG

#define PARSER ctx->pParser
#define RECOGNIZER PARSER->rec
#define PSRSTATE RECOGNIZER->state
#define HAVEPARSEDRULE(r) RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define MEMOIZE(ri,si) RECOGNIZER->memoize(RECOGNIZER, ri, si)
#define INPUT PARSER->tstream
#define STRSTREAM INPUT
#define ISTREAM INPUT->istream
#define INDEX() ISTREAM->index(INPUT->istream)
#define HASEXCEPTION() (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#ifdef SKIP_FOLLOW_SETS
#define FOLLOWPUSH(x)
#define FOLLOWPOP()
#else
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#endif
#define PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) INPUT->istream->_LA(ISTREAM, n)
#define LT(n) INPUT->_LT(INPUT, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define PERORRECOVERY PSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKING PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER,
s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER-
>recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR ctx->adaptor
#define RULEMEMO PSRSTATE->ruleMemo

```

```

#define DBG    RECOGNIZER->debugger

<endif>

<if(TREE_PARSER)>
/* Macros for accessing things in the parser
*/

#undef  PARSER
#undef  RECOGNIZER
#undef  HAVEPARSEDRULE
#undef  INPUT
#undef  STRSTREAM
#undef  HASEXCEPTION
#undef  EXCEPTION
#undef  MATCHT
#undef  MATCHANYT
#undef  FOLLOWSTACK
#undef  FOLLOWPUSH
#undef  FOLLOWPOP
#undef  PRECOVER
#undef  PREPORTERROR
#undef  LA
#undef  LT
#undef  CONSTRUCTEX
#undef  CONSUME
#undef  MARK
#undef  REWIND
#undef  REWINDLAST
#undef  PERRORECOVERY
#undef  HASFAILED
#undef  FAILEDFLAG
#undef  RECOVERFROMMISMATCHEDSET
#undef  RECOVERFROMMISMATCHEDELEMENT
#undef  BACKTRACKING
#undef  ADAPTOR
#undef  RULEMEMO
#undef  SEEK
#undef  INDEX
#undef  DBG

#define  PARSER    ctx->pTreeParser
#define  RECOGNIZER  PARSER->rec
#define  PSRSTATE  RECOGNIZER->state
#define  HAVEPARSEDRULE(r)  RECOGNIZER->alreadyParsedRule(RECOGNIZER, r)
#define  INPUT    PARSER->ctnstream
#define  ISTREAM  INPUT->tnstream->istream
#define  STRSTREAM  INPUT->tnstream

```

```

#define HASEXCEPTION() (PSRSTATE->error == ANTLR3_TRUE)
#define EXCEPTION PSRSTATE->exception
#define MATCHT(t, fs) RECOGNIZER->match(RECOGNIZER, t, fs)
#define MATCHANYT() RECOGNIZER->matchAny(RECOGNIZER)
#define FOLLOWSTACK PSRSTATE->following
#define FOLLOWPUSH(x) FOLLOWSTACK->push(FOLLOWSTACK, ((void *)&(x)), NULL)
#define FOLLOWPOP() FOLLOWSTACK->pop(FOLLOWSTACK)
#define PRECOVER() RECOGNIZER->recover(RECOGNIZER)
#define PREPORTERROR() RECOGNIZER->reportError(RECOGNIZER)
#define LA(n) ISTREAM->_LA(ISTREAM, n)
#define LT(n) INPUT->tnstream->_LT(INPUT->tnstream, n)
#define CONSTRUCTEX() RECOGNIZER->exConstruct(RECOGNIZER)
#define CONSUME() ISTREAM->consume(ISTREAM)
#define MARK() ISTREAM->mark(ISTREAM)
#define REWIND(m) ISTREAM->rewind(ISTREAM, m)
#define REWINDLAST() ISTREAM->rewindLast(ISTREAM)
#define PERORRECOVERY PSRSTATE->errorRecovery
#define FAILEDFLAG PSRSTATE->failed
#define HASFAILED() (FAILEDFLAG == ANTLR3_TRUE)
#define BACKTRACKING PSRSTATE->backtracking
#define RECOVERFROMMISMATCHEDSET(s) RECOGNIZER->recoverFromMismatchedSet(RECOGNIZER,
s)
#define RECOVERFROMMISMATCHEDELEMENT(e) RECOGNIZER-
>recoverFromMismatchedElement(RECOGNIZER, s)
#define ADAPTOR INPUT->adaptor
#define RULEMEMO PSRSTATE->ruleMemo
#define SEEK(n) ISTREAM->seek(ISTREAM, n)
#define INDEX() ISTREAM->index(ISTREAM)
#define DBG RECOGNIZER->debugger

<endif>

#define TOKTEXT(tok, txt) tok, (pANTLR3_UINT8)txt

/* The 4 tokens defined below may well clash with your own #defines or token types. If so
* then for the present you must use different names for your defines as these are hard coded
* in the code generator. It would be better not to use such names internally, and maybe
* we can change this in a forthcoming release. I deliberately do not #undef these
* here as this will at least give you a redefined error somewhere if they clash.
*/
#define UP ANTLR3_TOKEN_UP
#define DOWN ANTLR3_TOKEN_DOWN
#define EOR ANTLR3_TOKEN_EOR
#define INVALID ANTLR3_TOKEN_INVALID

/* =====

```

```
* Functions to create and destroy scopes. First come the rule scopes, followed
* by the global declared scopes.
*/
```

```
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncDecl(scope=r.ruleDescriptor.ruleScope)>
<ruleAttributeScopeFuncs(scope=r.ruleDescriptor.ruleScope)>
<endif>}>
```

```
<recognizer.scopes:{it | <if(it.isDynamicGlobalScope)>
<globalAttributeScopeFuncDecl(it)>
<globalAttributeScopeFuncs(it)>
<endif>}>
```

```
/* ===== */
```

```
/* =====
```

```
* Start of recognizer
*/
```

```
<recognizer>
```

```
/* End of code
```

```
* =====
```

```
*/
```

```
>>
```

```
headerFileExtension() ::= ".h"
```

```
headerFile( LEXER,
            PARSER,
            TREE_PARSER,
            actionScope,
            actions,
            docComment,
            recognizer,
            name,
            tokens,
            tokenNames,
            rules,
            cyclicDFAs,
            bitsets,
            buildTemplate,
            buildAST,
            rewriteMode,
            profile,
            backtracking,
            synpreds,
```

```

        memoize,
        numRules,
        fileName,
        ANTLRVersion,
        generatedTimestamp,
        trace,
        scopes,
        superClass,
        literals
    ) ::=
<<
<leadIn("C header")>
<if(PARSER)>
* The parser <mainName()>
<endif>
<if(LEXER)>
* The lexer <mainName()>
<endif>
<if(TREE_PARSER)>
* The tree parser <mainName()>
<endif>
has the callable functions (rules) shown below,
* which will invoke the code for the associated rule in the source grammar
* assuming that the input stream is pointing to a token/text stream that could begin
* this rule.
*
* For instance if you call the first (topmost) rule in a parser grammar, you will
* get the results of a full parse, but calling a rule half way through the grammar will
* allow you to pass part of a full token stream to the parser, such as for syntax checking
* in editors and so on.
*
* The parser entry points are called indirectly (by function pointer to function) via
* a parser context typedef p<name>, which is returned from a call to <name>New().
*
<if(LEXER)>
* As this is a generated lexer, it is unlikely you will call it 'manually'. However
* the methods are provided anyway.
*
<endif>
* The methods in p<name> are as follows:
*
* <rules:{r | <if(!r.ruleDescriptor.isSynPred)> - <headerReturnType(ruleDescriptor=r.ruleDescriptor,...)>
p<name>-><r.ruleDescriptor.name>(p<name>)<endif>}; separator="\n * ">
*
* The return type for any particular rule is of course determined by the source
* grammar file.
*/
// [The "BSD license"]

```

```
// Copyright (c) 2005-2009 Jim Idle, Temporal Wave LLC
// http://www.temporal-wave.com
// http://www.linkedin.com/in/jimidle
//
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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.
```

```
#ifndef _<name>_H
#define _<name>_H
<actions.(actionScope).preincludes>
/* =====
* Standard antlr3 C runtime definitions
*/
#include \<antlr3.h>

/* End of standard antlr 3 runtime definitions
* =====
*/
<actions.(actionScope).includes>

#ifdef __cplusplus
extern "C" {
#endif

// Forward declare the context typedef so that we can use it before it is
// properly defined. Delegates and delegates (from import statements) are
// interdependent and their context structures contain pointers to each other
```

```

// C only allows such things to be declared if you pre-declare the typedef.
//
typedef struct <name>_Ctx_struct <name>, * p<name>;

<if(recognizer.grammar.delegates)>
// Include delegate definition header files
//
<recognizer.grammar.delegates: {g|#include \<<g.recognizerName>.h>}; separator="\n">

<endif>

<actions.(actionScope).header>

#ifdef ANTLR3_WINDOWS
// Disable: Unreferenced parameter, - Rules with parameters that are not used
// constant conditional, - ANTLR realizes that a prediction is always true (synpred usually)
// initialized but unused variable - tree rewrite variables declared but not needed
// Unreferenced local variable - lexer rule declares but does not always use _type
// potentially uninitialized variable used - retval always returned from a rule
// unreferenced local function has been removed - susually getTokenNames or freeScope, they can go without
warnigns
//
// These are only really displayed at warning level /W4 but that is the code ideal I am aiming at
// and the codegen must generate some of these warnings by necessity, apart from 4100, which is
// usually generated when a parser rule is given a parameter that it does not use. Mostly though
// this is a matter of orthogonality hence I disable that one.
//
#pragma warning( disable : 4100 )
#pragma warning( disable : 4101 )
#pragma warning( disable : 4127 )
#pragma warning( disable : 4189 )
#pragma warning( disable : 4505 )
#pragma warning( disable : 4701 )
#endif
<if(backtracking)>

/* =====
* BACKTRACKING IS ENABLED
* =====
*/

<endif>

<rules:{r | <headerReturnScope(ruleDescriptor=r.ruleDescriptor,...)>}>

<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeDecl(it)><endif>}>
<rules:{r | <ruleAttributeScopeDecl(scope=r.ruleDescriptor.ruleScope)>}>
<if(recognizer.grammar.delegators)>

```

```

// Include delegator definition header files
//
<recognizer.grammar.delegators: {g|#include \<<g.recognizerName>.h>}; separator="\n">

<endif>

/** Context tracking structure for <mainName()>
*/
struct <name>_Ctx_struct
{
    /** Built in ANTLR3 context tracker contains all the generic elements
    * required for context tracking.
    */
<if(PARSER)>
    pANTLR3_PARSER  pParser;
<endif>
<if(LEXER)>
    pANTLR3_LEXER  pLexer;
<endif>
<if(TREE_PARSER)>
    pANTLR3_TREE_PARSER  pTreeParser;
<endif>

<if(recognizer.grammar.delegates)>
<recognizer.grammar.delegates:
    {g|p<g.recognizerName> <g:delegateName(>);}; separator="\n">
<endif>
<if(recognizer.grammar.delegators)>
<recognizer.grammar.delegators:
    {g|p<g.recognizerName> <g:delegateName(>);}; separator="\n">
<endif>
<scopes:{it | <if(it.isDynamicGlobalScope)>
    <globalAttributeScopeDef(it)>
<endif>}; separator="\n\n">
<rules: {r |<if(r.ruleDescriptor.ruleScope)>
    <ruleAttributeScopeDef(scope=r.ruleDescriptor.ruleScope)>
<endif>}>

<if(LEXER)>
    <rules:{r | <if(!r.ruleDescriptor.isSynPred)><headerReturnType(ruleDescriptor=r.ruleDescriptor)>
(*m<r.ruleDescriptor.name>) (struct <name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope(>);<endif>}; separator="\n">
<endif>
<if(!LEXER)>
    <rules:{r | <headerReturnType(ruleDescriptor=r.ruleDescriptor)> (*<r.ruleDescriptor.name>) (struct
<name>_Ctx_struct * ctx<if(r.ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope(>);}; separator="\n">
<! generate rule/method definitions for imported rules so they

```

```

appear to be defined in this recognizer. !>
// Delegated rules
<recognizer.grammar.delegatedRules:{ruleDescriptor|
  <headerReturnType(ruleDescriptor)> (*<ruleDescriptor.name>)(struct <name>_Ctx_struct *
ctx<if(ruleDescriptor.parameterScope)>, <endif><ruleDescriptor.parameterScope:parameterScope(>>));
separator="\n">
<endif>

  const char * (*getGrammarFileName());
  void (*reset) (struct <name>_Ctx_struct * ctx);
  void (*free) (struct <name>_Ctx_struct * ctx);
  <@members>
  <@end>
  <actions.(actionScope).context>
};

// Function prototypes for the constructor functions that external translation units
// such as delegators and delegates may wish to call.
//
ANTLR3_API p<name> <name>New (<inputType()> instream<recognizer.grammar.delegators:{g|,
p<g.recognizerName> <g.delegateName()>}>);
ANTLR3_API p<name> <name>NewSSD (<inputType()> instream,
pANTLR3_RECOGNIZER_SHARED_STATE state<recognizer.grammar.delegators:{g|, p<g.recognizerName>
<g.delegateName()>}>);
<if(!recognizer.grammar.grammarIsRoot)>
extern pANTLR3_UINT8 <recognizer.grammar.composite.rootGrammar.recognizerName>TokenNames[];
<endif>

/** Symbolic definitions of all the tokens that the <grammarType()> will work with.
* \{
*
* Antlr will define EOF, but we can't use that as it is too common in
* in C header files and that would be confusing. There is no way to filter this out at the moment
* so we just undef it here for now. That isn't the value we get back from C recognizers
* anyway. We are looking for ANTLR3_TOKEN_EOF.
*/
#ifdef EOF
#undef EOF
#endif
#ifdef Tokens
#undef Tokens
#endif
<tokens:{it | #define <it.name> <it.type>}; separator="\n">
#ifdef EOF
#undef EOF
#define EOF ANTLR3_TOKEN_EOF
#endif

```

```
#ifndef TOKENSOURCE
#define TOKENSOURCE(lxr) lxr->pLexer->rec->state->tokSource
#endif
```

```
/* End of token definitions for <name>
```

```
* =====
```

```
*/
```

```
/** \} */
```

```
#ifdef __cplusplus
```

```
}
```

```
#endif
```

```
#endif
```

```
/* END - Note:Keep extra line feed to satisfy UNIX systems */
```

```
>>
```

```
inputType() ::= <<
```

```
<if(LEXER)>
```

```
pANTLR3_INPUT_STREAM
```

```
<endif>
```

```
<if(PARSER)>
```

```
pANTLR3_COMMON_TOKEN_STREAM
```

```
<endif>
```

```
<if(TREE_PARSER)>
```

```
pANTLR3_COMMON_TREE_NODE_STREAM
```

```
<endif>
```

```
>>
```

```
grammarType() ::= <<
```

```
<if(PARSER)>
```

```
parser
```

```
<endif>
```

```
<if(LEXER)>
```

```
lexer
```

```
<endif>
```

```
<if(TREE_PARSER)>
```

```
tree parser
```

```
<endif>
```

```
>>
```

```
mainName() ::= <<
```

```
<if(PARSER)>
```

```
<name>
```

```
<endif>
```

```

<if(LEXER)>
<name>
<endif>
<if(TREE_PARSER)>
<name>
<endif>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScope(...)>"

headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!ruleDescriptor.isSynPred)>
void
<else>
<returnType()>
<endif>
<else>
<returnType()>
<endif>
>>

// Produce the lexer output
//
lexer( grammar,
      name,
      tokens,
      scopes,
      rules,
      numRules,
      filterMode,
      superClass,
      labelType="pANTLR3_COMMON_TOKEN") ::= <<

<if(filterMode)>
/* Forward declare implementation function for ANTLR3_TOKEN_SOURCE interface when
* this is a filter mode lexer.
*/
static pANTLR3_COMMON_TOKEN <name>NextToken (pANTLR3_TOKEN_SOURCE toksource);

/* Override the normal MEMOIZE and HAVEALREADYPARSED macros as this is a filtering
* lexer. In filter mode, the memoizing and backtracking are gated at BACKTRACKING > 1 rather
* than just BACKTRACKING. In some cases this might generate code akin to:
* if (BACKTRACKING) if (BACKTRACKING > 1) memoize.
* However, I assume that the C compilers/optimizers are smart enough to work this one out
* these days - Jim
*/
#undef MEMOIZE

```

```

#define MEMOIZE(ri,si) if (BACKTRACKING>1) { RECOGNIZER->memoize(RECOGNIZER, ri, si) }
#undef HAVEPARSEDRULE
#define HAVEPARSEDRULE(r) if (BACKTRACKING>1) { RECOGNIZER->alreadyParsedRule(RECOGNIZER,
r) }
<endif>

/* Forward declare the locally static matching functions we have generated and any predicate functions.
*/
<rules:{r | static ANTLR3_INLINE <headerReturnType(ruleDescriptor=r.ruleDescriptor)>
<if(!r.ruleDescriptor.isSynPred)>m<endif><r.ruleDescriptor.name> (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope(>>);
separator="\n">
static void <name>Free(p<name> ctx);

/* =====
* Lexer matching rules end.
* =====
*/

<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}>

<actions.lexer.members>

static void
<name>Free (p<name> ctx)
{
<if(memoize)>
if (RULEMEMO != NULL)
{
RULEMEMO->free(RULEMEMO);
RULEMEMO = NULL;
}
<endif>
<if(grammar.directDelegates)>
// Free the lexers that we delegated to
// functions to. NULL the state so we only free it once.
//
<grammar.directDelegates:
{g|ctx-><g:delegateName(>->pLexer->rec->state = NULL;
ctx-><g:delegateName(>->free(ctx-><g:delegateName(>);}; separator="\n">
<endif>
LEXER->free(LEXER);

ANTLR3_FREE(ctx);
}

static void
<name>Reset (p<name> ctx)

```

```

{
    RECOGNIZER->reset(RECOGNIZER);
}

/** \brief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
*/
static const char * getGrammarFileName()
{
    return fileName;
}

<if(filterMode)>
    <filteringNextToken()>
<endif>

/** \brief Create a new lexer called <name>
*
* \param[in] instream Pointer to an initialized input stream
* \return
* - Success p<name> initialized for the lex start
* - Fail NULL
*/
ANTLR3_API p<name> <name>New
(<inputType()> instream<grammar.delegators:{g|, p<g.recognizerName> <g.delegateName()>>})
{
    // See if we can create a new lexer with the standard constructor
    //
    return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g.delegateName()>>});
}

/** \brief Create a new lexer called <name>
*
* \param[in] instream Pointer to an initialized input stream
* \param[state] state Previously created shared recognizer stat
* \return
* - Success p<name> initialized for the lex start
* - Fail NULL
*/
ANTLR3_API p<name> <name>NewSSD
(pANTLR3_INPUT_STREAM instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g.delegateName()>>})
{
    p<name> ctx; // Context structure we will build and return

```

```

ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

if (ctx == NULL)
{
    // Failed to allocate memory for lexer context
    return NULL;
}

/* -----
 * Memory for basic structure is allocated, now to fill in
 * in base ANTLR3 structures. We initialize the function pointers
 * for the standard ANTLR3 lexer function set, but upon return
 * from here, the programmer may set the pointers to provide custom
 * implementations of each function.
 *
 * We don't use the macros defined in <name>.h here so you can get a sense
 * of what goes where.
 */

/* Create a base lexer, using the supplied input stream
 */
ctx->pLexer = antlr3LexerNewStream(ANTLR3_SIZE_HINT, instream, state);

/* Check that we allocated the memory correctly
 */
if (ctx->pLexer == NULL)
{
    ANTLR3_FREE(ctx);
    return NULL;
}
<if(memoize)>
<if(grammar.grammarIsRoot)>
    // Create a LIST for recording rule memos.
    //
    ctx->pLexer->rec->ruleMemo = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */
<endif>
<endif>

/* Install the implementation of our <name> interface
 */
<rules:{r | <if(!r.ruleDescriptor.isSynPred)>ctx->m<r.ruleDescriptor.name> =
m<r.ruleDescriptor.name>;<endif>}>; separator="\n">

/** When the nextToken() call is made to this lexer's pANTLR3_TOKEN_SOURCE
 * it will call mTokens() in this generated code, and will pass it the ctx
 * pointer of this lexer, not the context of the base lexer, so store that now.
 */
ctx->pLexer->ctx = ctx;

```

```

/**Install the token matching function
*/
ctx->pLexer->mTokens = (void (*)(void *))(mTokens);

ctx->getGrammarFileName = getGrammarFileName;
ctx->free = <name>Free;
ctx->reset = <name>Reset;

<if(grammar.directDelegates)>
// Initialize the lexers that we are going to delegate some
// functions to.
//
<grammar.directDelegates:
    {g|ctx-><g:delegateName()> = <g.recognizerName>NewSSD(instream, ctx->pLexer->rec->state,
ctx-<grammar.delegators:{g|, <g:delegateName()>}>); separator="\n">
<endif>
<if(grammar.delegators)>
// Install the pointers back to lexers that will delegate us to perform certain functions
// for them.
//
<grammar.delegators:
    {g|ctx-><g:delegateName()> = <g:delegateName()>;}; separator="\n">
<endif>
<if(filterMode)>
/* We have filter mode turned on, so install the filtering nextToken function
*/
ctx->pLexer->rec->state->tokSource->nextToken = <name>NextToken;
<endif>
<actions.lexer.apifuncs>

/* Return the newly built lexer to the caller
*/
return ctx;
}
<if(cyclicDFAs)>

/* =====
* DFA tables for the lexer
*/
<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =====
* End of DFA tables for the lexer
*/
<endif>

/* =====
* Functions to match the lexer grammar defined tokens from the input stream

```

```

*/

<rules; separator="\n\n">

/* =====
* Lexer matching rules end.
* =====
*/
<if(synpreds)>

/* =====
* Lexer syntactic predicates
*/
<synpreds:{p | <lexerSynpred(predname=p)>}>
/* =====
* Lexer syntactic predicates end.
* =====
*/
<endif>

/* End of Lexer code
* =====
* =====
*/

>>

```

```

filteringNextToken() ::= <<
/** An override of the lexer's nextToken() method that backtracks over mTokens() looking
* for matches in lexer filterMode. No error can be generated upon error; just rewind, consume
* a token and then try again. BACKTRACKING needs to be set as well.
* Make rule memoization happen only at levels above 1 as we start mTokens
* at BACKTRACKING==1.
*/

```

```

static pANTLR3_COMMON_TOKEN
<name>NextToken(pANTLR3_TOKEN_SOURCE toksource)
{
    pANTLR3_LEXER lexer;
    pANTLR3_RECOGNIZER_SHARED_STATE state;

```

```

    lexer = (pANTLR3_LEXER)(toksource->super);
    state = lexer->rec->state;

```

```

    /* Get rid of any previous token (token factory takes care of
    * any deallocation when this token is finally used up.
    */

```

```

    state ->token = NULL;

```

```

state ->error = ANTLR3_FALSE; /* Start out without an exception */
state ->failed = ANTLR3_FALSE;

/* Record the start of the token in our input stream.
*/
state->tokenStartCharIndex = lexer->input->istream->index(lexer->input->istream);
state->tokenStartCharPositionInLine = lexer->input->getCharPositionInLine(lexer->input);
state->tokenStartLine = lexer->input->getLine(lexer->input);
state->text = NULL;

/* Now call the matching rules and see if we can generate a new token
*/
for (;;)
{
if (lexer->input->istream->_LA(lexer->input->istream, 1) == ANTLR3_CHARSTREAM_EOF)
{
/* Reached the end of the stream, nothing more to do.
*/
pANTLR3_COMMON_TOKEN teof = &(toksource->eofToken);

teof->setStartIndex (teof, lexer->getCharIndex(lexer));
teof->setStopIndex (teof, lexer->getCharIndex(lexer));
teof->setLine (teof, lexer->getLine(lexer));
return teof;
}

state->token = NULL;
state->error = ANTLR3_FALSE; /* Start out without an exception */

{
ANTLR3_MARKER m;

m = lexer->input->istream->mark(lexer->input->istream);
state->backtracking = 1; /* No exceptions */
state->failed = ANTLR3_FALSE;

/* Call the generated lexer, see if it can get a new token together.
*/
lexer->mTokens(lexer->ctx);
state->backtracking = 0;

<! mTokens backtracks with synpred at BACKTRACKING==2
and we set the synpredgate to allow actions at level 1. !>

if (state->failed == ANTLR3_TRUE)
{
lexer->input->istream->rewind(lexer->input->istream, m);
lexer->input->istream->consume(lexer->input->istream); <! advance one char and try again !>
}
}

```

```

    }
    else
    {
        lexer->emit(lexer);  /* Assemble the token and emit it to the stream */
        return state->token;
    }
}
}
}
}
>>

```

```

actionGate() ::= "BACKTRACKING==0"

```

```

filteringActionGate() ::= "BACKTRACKING==1"

```

```

/** How to generate a parser */

```

```

genericParser( grammar,
    name,
        scopes,
        tokens,
        tokenNames,
        rules,
        numRules,
        bitsets,
        inputStreamType,
        superClass,
        labelType,
    members,
    rewriteElementType, filterMode,
        ASTLabelType="pANTLR3_BASE_TREE"
    ) ::= <<

```

```

<if(grammar.grammarIsRoot)>

```

```

/** \brief Table of all token names in symbolic order, mainly used for

```

```

*   error reporting.

```

```

*/

```

```

pANTLR3_UINT8 <name>TokenNames[<length(tokenNames)>+4]

```

```

= {

```

```

    (pANTLR3_UINT8) "\<invalid>",  /* String to print to indicate an invalid token */

```

```

    (pANTLR3_UINT8) "\<EOR>",

```

```

    (pANTLR3_UINT8) "\<DOWN>",

```

```

    (pANTLR3_UINT8) "\<UP>",

```

```

    <tokenNames:{it |(pANTLR3_UINT8) <it>; separator=",\n">

```

```

    };

```

```

<endif>

```

```

<@members>

```

```

    <@end>
<rules:{r |<ruleAttributeScopeFuncMacro(scope=r.ruleDescriptor.ruleScope)>>
<scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScopeFuncMacro(it)><endif>>}>

// Forward declare the locally static matching functions we have generated.
//
<rules:{r | static <headerReturnType(ruleDescriptor=r.ruleDescriptor)> <r.ruleDescriptor.name> (p<name>
ctx<if(r.ruleDescriptor.parameterScope)>, <endif><r.ruleDescriptor.parameterScope:parameterScope()>);};
separator="\n">
static void <name>Free(p<name> ctx);
static void <name>Reset (p<name> ctx);

<if(!LEXER)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
<if(recognizer.grammar.delegatedRules)>
// Delegated rules
//
<recognizer.grammar.delegatedRules:{ruleDescriptor|static <headerReturnType(ruleDescriptor)>
<ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><r.ruleDescriptor.parameterScope:parameterScope()>);}; separator="\n">

<endif>
<endif>

/* For use in tree output where we are accumulating rule labels via label += ruleRef
* we need a function that knows how to free a return scope when the list is destroyed.
* We cannot just use ANTLR3_FREE because in debug tracking mode, this is a macro.
*/
static void ANTLR3_CDECL freeScope(void * scope)
{
    ANTLR3_FREE(scope);
}

/** \brief Name of the grammar file that generated this code
*/
static const char fileName[] = "<fileName>";

/** \brief Return the name of the grammar file that generated this code.
*/
static const char * getGrammarFileName()
{
    return fileName;
}

/** \brief Create a new <name> parser and return a context for it.
*
* \param[in] instream Pointer to an input stream interface.

```

```

*
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name>
<name>New (<inputStreamType> instream<grammar.delegators:{g|, p<g.recognizerName>
<g.delegateName(>>>)
{
// See if we can create a new parser with the standard constructor
//
return <name>NewSSD(instream, NULL<grammar.delegators:{g|, <g.delegateName(>>>);
}

/** \brief Create a new <name> parser and return a context for it.
*
* \param[in] instream Pointer to an input stream interface.
*
* \return Pointer to new parser context upon success.
*/
ANTLR3_API p<name>
<name>NewSSD (<inputStreamType> instream, pANTLR3_RECOGNIZER_SHARED_STATE
state<grammar.delegators:{g|, p<g.recognizerName> <g.delegateName(>>>)
{
p<name> ctx; /* Context structure we will build and return */

ctx = (p<name>) ANTLR3_CALLOC(1, sizeof(<name>));

if (ctx == NULL)
{
// Failed to allocate memory for parser context
//
return NULL;
}

/* -----
* Memory for basic structure is allocated, now to fill in
* the base ANTLR3 structures. We initialize the function pointers
* for the standard ANTLR3 parser function set, but upon return
* from here, the programmer may set the pointers to provide custom
* implementations of each function.
*
* We don't use the macros defined in <name>.h here, in order that you can get a sense
* of what goes where.
*/

<if(PARSER)>
/* Create a base parser/recognizer, using the supplied token stream
*/
ctx->pParser = antlr3ParserNewStream(ANTLR3_SIZE_HINT, instream->tstream, state);

```

```

<endif>
<if(TREE_PARSER)>
  /* Create a base Tree parser/recognizer, using the supplied tree node stream
  */
  ctx->pTreeParser = antlr3TreeParserNewStream(ANTLR3_SIZE_HINT, instream, state);
<endif>

  /* Install the implementation of our <name> interface
  */
  <rules: {r | ctx-><r.ruleDescriptor.name> = <r.ruleDescriptor.name>;}; separator="\n">
<if(grammar.delegatedRules)>
  // Install the delegated methods so that they appear to be a part of this
  // parser
  //
  <grammar.delegatedRules: {ruleDescriptor | ctx-><ruleDescriptor.name> = <ruleDescriptor.name>;};
separator="\n">
<endif>

  ctx->free = <name>Free;
  ctx->reset = <name>Reset;
  ctx->getGrammarFileName = getGrammarFileName;

  /* Install the scope pushing methods.
  */
  <rules: {r |<if(r.ruleDescriptor.ruleScope)>
<ruleAttributeScope(scope=r.ruleDescriptor.ruleScope)><\n>
<endif>}>
  <recognizer.scopes: {it |<if(it.isDynamicGlobalScope)>
<globalAttributeScope(it)><\n>
<endif>}>
  <@apifuncs>

  <@end>
<if(grammar.directDelegates)>
  // Initialize the parsers that we are going to delegate some
  // functions to.
  //
  <grammar.directDelegates:
    {g|ctx-><g.delegateName()> = <g.recognizerName>NewSSD(instream, PSRSTATE,
ctx-><grammar.delegators: {g|, <g.delegateName()>}>);}; separator="\n">
  <endif>
  <if(grammar.delegators)>
  // Install the pointers back to parsers that will delegate us to perform certain functions
  // for them.
  //
  <grammar.delegators:
    {g|ctx-><g.delegateName()> = <g.delegateName()>;}; separator="\n">
  <endif>

```

```

    <actions.parser.apifuncs>
    <actions.treeparser.apifuncs>
<if(memoize)>
<if(grammar.grammarIsRoot)>
    /* Create a LIST for recording rule memos.
    */
    RULEMEMO = antlr3IntTrieNew(15); /* 16 bit depth is enough for 32768 rules! */<\n>
<endif>
<endif>
    /* Install the token table
    */
    PSRSTATE->tokenNames = <grammar.composite.rootGrammar.recognizerName>TokenNames;

    <@debugStuff()>

    /* Return the newly built parser to the caller
    */
    return ctx;
}

static void
<name>Reset (p<name> ctx)
{
    RECOGNIZER->reset(RECOGNIZER);
}

/** Free the parser resources
*/
static void
<name>Free(p<name> ctx)
{
    /* Free any scope memory
    */
    <rules: {r
|<if(r.ruleDescriptor.ruleScope)><ruleAttributeScopeFree(scope=r.ruleDescriptor.ruleScope)><\n><endif> }>
    <recognizer.scopes: {it |<if(it.isDynamicGlobalScope)><globalAttributeScopeFree(it)><\n><endif> }>

    <@cleanup>
    <@end>
<if(grammar.directDelegates)>
    // Free the parsers that we delegated to
    // functions to.NULL the state so we only free it once.
    //
    <grammar.directDelegates:
        {g| ctx-><g:delegateName()-><if(TREE_PARSER)>pTreeParser<else>pParser<endif>->rec->state = NULL;
        ctx-><g:delegateName()->free(ctx-><g:delegateName()->);}; separator="\n">
    <endif>
</if(memoize)>

```

```

<if(grammar.isRoot)>
if (RULEMEMO != NULL)
{
RULEMEMO->free(RULEMEMO);
RULEMEMO = NULL;
}
<endif>
<endif>
// Free this parser
//
<if(TREE_PARSER)>
ctx->pTreeParser->free(ctx->pTreeParser);<\n>
<else>
ctx->pParser->free(ctx->pParser);<\n>
<endif>

ANTLR3_FREE(ctx);

/* Everything is released, so we can return
*/
return;
}

/** Return token names used by this <grammarType()>
*
* The returned pointer is used as an index into the token names table (using the token
* number as the index).
*
* \return Pointer to first char * in the table.
*/
static pANTLR3_UINT8 *getTokenNames()
{
return <grammar.composite.rootGrammar.recognizerName>TokenNames;
}

<members>

/* Declare the bitsets
*/
<bitsets:{it | <bitsetDeclare(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
words64=it.bits)>}>

<if(cyclicDFAs)>

/* =====
* DFA tables for the parser
*/

```

```

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
/* =====
* End of DFA tables for the parser
*/
<endif>

/* =====
* Parsing rules
*/
<rules; separator="\n\n">
<if(grammar.delegatedRules)>
// Delegated methods that appear to be a part of this
// parser
//
<grammar.delegatedRules:{ruleDescriptor|
  <returnType()> <ruleDescriptor.name>(p<name> ctx<if(ruleDescriptor.parameterScope.attributes)>,
<endif><ruleDescriptor.parameterScope:parameterScope()>)
  \{
    <if(ruleDescriptor.hasReturnValue)>return <endif>ctx-><ruleDescriptor.grammar:delegateName()>-
  ><ruleDescriptor.name>(ctx-
  ><ruleDescriptor.grammar:delegateName()><if(ruleDescriptor.parameterScope.attributes)>,
  <endif><ruleDescriptor.parameterScope.attributes:{a|<a.name>}>; separator=", ">);
  \}}; separator="\n\n">

<endif>
/* End of parsing rules
* =====
*/

/* =====
* Syntactic predicates
*/
<synpreds:{p | <synpred(predname=p)>>
/* End of syntactic predicates
* =====
*/

>>

parser( grammar,
  name,
  scopes,
  tokens,
  tokenNames,

```

```

rules,
numRules,
bitsets,
ASTLabelType,
superClass="Parser",
labelType="pANTLR3_COMMON_TOKEN",
members={<actions.parser.members>}
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TOKEN_STREAM", rewriteElementType="TOKEN",
...)>
>>

```

/\*\* How to generate a tree parser; same as parser except the input

\* stream is a different type.

\*/

```

treeParser( grammar,
name,
scopes,
tokens,
tokenNames,
globalAction,
rules,
numRules,
bitsets,
filterMode,
labelType={<ASTLabelType>},
ASTLabelType="pANTLR3_BASE_TREE",
superClass="TreeParser",
members={<actions.treeparser.members>}
) ::= <<
<genericParser(inputStreamType="pANTLR3_COMMON_TREE_NODE_STREAM",
rewriteElementType="NODE", ...)>
>>

```

/\*\* A simpler version of a rule template that is specific to the imaginary

\* rules created for syntactic predicates. As they never have return values

\* nor parameters etc..., just give simplest possible method. Don't do

\* any of the normal memoization stuff in here either; it's a waste.

\* As predicates cannot be inlined into the invoking rule, they need to

\* be in a rule by themselves.

\*/

```

synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=

```

```

<<

```

```

// $ANTLR start <ruleName>

```

```

static void <ruleName>_fragment(p<name> ctx <ruleDescriptor.parameterScope:parameterScope()>)

```

```

{

```

```

<ruleLabelDefs()>

```

```

<ruleLabelInitializations()>

```

```

<if(trace)>
    ANTLR3_PRINTF("enter <ruleName> %d failed = %d, backtracking = %d\\n",LT(1),failed,BACKTRACKING);
<block>
    ANTLR3_PRINTF("exit <ruleName> %d, failed = %d, backtracking = %d\\n",LT(1),failed,BACKTRACKING);

<else>
    <block>
<endif>
<ruleCleanUp()>
}
// $ANTLR end <ruleName>
>>

synpred(predname) ::= <<
static ANTLR3_BOOLEAN <predname>(p<name> ctx)
{
    ANTLR3_MARKER start;
    ANTLR3_BOOLEAN success;

    BACKTRACKING++;
    <@start()>
    start = MARK();
    <predname>_fragment(ctx); // can never throw exception
    success = !(FAILEDFLAG);
    REWIND(start);
    <@stop()>
    BACKTRACKING--;
    FAILEDFLAG = ANTLR3_FALSE;
    return success;
}<\n>
>>

lexerSynpred(predname) ::= <<
<synpred(predname)>
>>

ruleMemoization(rname) ::= <<
<if(memoize)>
if ( (BACKTRACKING>0) && (HAVEPARSEDRULE(<ruleDescriptor.index>)) )
{
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
    retval.start = 0;<\n>
<endif>
<endif>
    <(ruleDescriptor.actions.after):execAfter()>
    <finalCode(finalBlock=finally)>
<if(!ruleDescriptor.isSynPred)>

```

```

    <scopeClean()><\n>
<endif>
    return <ruleReturnValue()>;
}
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
if (HASEXCEPTION())
{
    goto rule<ruleDescriptor.name>Ex;
}
<if(backtracking)>
if (HASFAILED())
{
    <scopeClean()>
    <@debugClean()>
    return <ruleReturnValue()>;
}
<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if (BACKTRACKING>0)
{
    FAILEDFLAG = <>true_value()>;
    <scopeClean()>
    return <ruleReturnValue()>;
}
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
/**
 * $ANTLR start <ruleName>
 * <fileName>:<description>
 */
static <returnType()>
<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope()>)
{
    <if(trace)>ANTLR3_PRINTF("enter <ruleName> %s failed=%d, backtracking=%d\n", LT(1),

```

```

BACKTRACKING);<endif>
    <ruleDeclarations()>
    <ruleDescriptor.actions.declarations>
    <ruleLabelDefs()>
    <ruleInitializations()>
    <ruleDescriptor.actions.init>
    <ruleMemoization(rname=ruleName)>
    <ruleLabelInitializations()>
    <@preamble()>
    {
        <block>
    }

    <ruleCleanUp()>
<if(exceptions)>
    if (HASEXCEPTION())
    {
    <exceptions: {e|<catch(decl=e.decl,action=e.action)><\n>}>
    }
    else
    {
    <(ruleDescriptor.actions.after):execAfter()>
    }
<else>
    <if(!emptyRule)>
        <if(actions.(actionScope).rulecatch)>
            <actions.(actionScope).rulecatch>
        <else>
            if (HASEXCEPTION())
            {
                PREPORTERROR();
                PRECOVER();
                <@setErrorReturnValue()>
            }
            <if(ruleDescriptor.actions.after)>
            else
            {
                <(ruleDescriptor.actions.after):execAfter()>
            }<\n>
        <endif>
    <endif>
    <endif>
<endif>

    <if(trace)>ANTLR3_PRINTF("exit <ruleName> %d failed=%s backtracking=%s\n", LT(1), failed,
BACKTRACKING);<endif>
    <memoize()>
<finally>

```

```

    <finalCode(finalBlock=finally)>
<endif>
    <scopeClean()>
    <@postamble()>
    return <ruleReturnValue()>;
}
/* $ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
{
    <finalBlock>
}

>>

catch(decl,action) ::= <<
/* catch(decl,action)
*/
{
    <e.action>
}

>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval;<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name>;
}>
<endif>
<if(memoize)>
ANTLR3_MARKER <ruleDescriptor.name>_startIndex;
<endif>
>>

ruleInitializations() ::= <<
/* Initialize rule variables
*/
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.returnScope.attributes:{ a |
<if(a.initValue)>retval.<a.name> = <a.initValue>;<endif>
}>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<if(a.initValue)><a.name> = <a.initValue>;<endif>

```

```

}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex = INDEX();<\n>
<endif>
<ruleDescriptor.useScopes:{it |<scopeTop(it)> = <scopePush(it)>;}; separator="\n">
<ruleDescriptor.ruleScope:{it |<scopeTop(it.name)> = <scopePush(it.name)>;}; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {it |<labelType> <it.label.text>;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {it |pANTLR3_VECTOR list_<it.label.text>;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelDef(); separator="\n"
>
>>

```

```

ruleLabelInitializations() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]
: {it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]
: {it |list_<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.ruleLabels,ruleDescriptor.ruleListLabels]
: ruleLabelInitVal(); separator="\n"
>
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!ruleDescriptor.isSynPred)>
retval.start = LT(1); retval.stop = retval.start;<\n>
<endif>
<endif>
>>

```

```

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<labelType> <it.label.text>;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |ANTLR3_UINT32 <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]

```

```

: {it |pANTLR3_INT_TRIE list_<it.label.text>;}; separator="\n"
>
>>

lexerRuleLabelInit() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it |list_<it.label.text> = antlr3IntTrieNew(31);}; separator="\n"
>
>>

lexerRuleLabelFree() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<it.label.text> = NULL;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {it |list_<it.label.text>->free(list_<it.label.text>;);}; separator="\n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
<endif>
%>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( BACKTRACKING>0 ) { MEMOIZE(<ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>

```

```

>>

ruleCleanUp() ::= <<

// This is where rules clean up and exit
//
goto rule<ruleDescriptor.name>Ex; /* Prevent compiler warnings */
rule<ruleDescriptor.name>Ex: ;
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
<if(!ruleDescriptor.isSynPred)>
retval.stop = LT(-1);<\n>
<endif>
<endif>
<endif>
>>

scopeClean() ::= <<
<ruleDescriptor.useScopes: { it |<scopePop(it)> }; separator="\n">
<ruleDescriptor.ruleScope: { it |<scopePop(it.name)> }; separator="\n">

>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules, which do not produce tokens.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// Comes from: <block.description>
/** \brief Lexer rule generated by ANTLR3
 *
 * $ANTLR start <ruleName>
 *
 * Looks to match the characters the constitute the token <ruleName>
 * from the attached input stream.
 *
 * \remark
 * - lexer->error == ANTLR3_TRUE if an exception was thrown.
 */
static ANTLR3_INLINE
void m<ruleName>(p<name> ctx<if(ruleDescriptor.parameterScope)>,
<endif><ruleDescriptor.parameterScope:parameterScope()>)
{
    ANTLR3_UINT32 _type;
    <ruleDeclarations()>
    <ruleDescriptor.actions.declarations>
    <lexerRuleLabelDefs()>
    <if(trace)>System.out.println("enter <ruleName> "+(char)LA(1)+"
line="+GETLINE()+":"+GETCHARPOSITIONINLINE()+" failed="+failed+"

```

```

backtracking="+BACKTRACKING);<endif>

<if(nakedBlock)>
  <ruleMemoization(rname=ruleName)>
  <lexerRuleLabelInit(>
  <ruleDescriptor.actions.init>

  <block><\n>
<else>
  <ruleMemoization(rname=ruleName)>
  <lexerRuleLabelInit(>
  _type = <ruleName>;

  <ruleDescriptor.actions.init>

  <block>
LEXSTATE->type = _type;
<endif>
  <if(trace)> ANTLR3_FPRINTF(stderr, "exit <ruleName> '%c' line=%d:%d failed = %d, backtracking
=%d\n",LA(1),GETLINE(),GETCHARPOSITIONINLINE(),failed,BACKTRACKING);<endif>
  <ruleCleanUp(>
  <lexerRuleLabelFree(>
  <(ruleDescriptor.actions.after):execAfter(>
  <memoize>
}
// $ANTLR end <ruleName>
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
/** This is the entry point in to the lexer from an object that
 * wants to generate the next token, such as a pCOMMON_TOKEN_STREAM
 */
static void
mTokens(p<name> ctx)
{
  <block><\n>

  goto ruleTokensEx; /* Prevent compiler warnings */
ruleTokensEx: ;
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */

```

```
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
```

```
// <fileName>:<description>
{
  int alt<decisionNumber>=<maxAlt>;
  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  <@prebranch()>
  switch (alt<decisionNumber>)
  {
  <alts:{ a | <altSwitchCase(i,a)>}>
  }
  <@postbranch()>
}
>>
```

```
/** A rule block with multiple alternatives */
```

```
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
```

```
{
  // <fileName>:<description>

  ANTLR3_UINT32 alt<decisionNumber>;

  alt<decisionNumber>=<maxAlt>;

  <decls>
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>)
  {
  <alts:{ a | <altSwitchCase(i,a)>}>
  }
}
>>
```

```
ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
```

```
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>
```

```
/** A special case of a (...) subrule with a single alternative */
```

```
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
```

```

// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,descriptio
n) ::= <<
// <fileName>:<description>
{
  int cnt<decisionNumber>=0;
  <decls>
  <@preloop()>

  for (;)
  {
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
      <alts:{a | <altSwitchCase(i,a)>}>
      default:

    if ( cnt<decisionNumber> >= 1 )
    {
      goto loop<decisionNumber>;
    }
    <ruleBacktrackFailure()>
    <earlyExitEx()>
    <@earlyExitException()>
    goto rule<ruleDescriptor.name>Ex;
  }
  cnt<decisionNumber>++;
  }
  loop<decisionNumber>; /* Jump to here if this rule does not match */
  <@postloop()>
}
>>

earlyExitEx() ::= <<
/* mismatchedSetEx()
*/
CONSTRUCTEX();
EXCEPTION->type = ANTLR3_EARLY_EXIT_EXCEPTION;

```

```

EXCEPTION->name = (void *)ANTLR3_EARLY_EXIT_NAME;
<\n>
>>
positiveClosureBlockSingleAlt ::= positiveClosureBlock

/** A (..)* block with 1 or more alternatives */
closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=
<<

// <fileName>:<description>
<decls>

<@preloop()>
for (;;)
{
    int alt<decisionNumber>=<maxAlt>;
    <@predecision()>
    <decision>
    <@postdecision()>
    switch (alt<decisionNumber>)
    {
    <alts:{ a | <altSwitchCase(i,a)> }>
    default:
        goto loop<decisionNumber>; /* break out of the loop */
        break;
    }
}
loop<decisionNumber>; /* Jump out to here if this rule does not match */
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by antlr before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase(altNum,alt) ::= <<
case <altNum>:
    <@prealt()>
    <alt>

```

```

    break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
    <@declarations()>
    <@initializations()>
    <elements:element()>
    <rew>
    <@cleanup()>
}
>>

// E L E M E N T S
/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

/** Dump the elements one per line */
element(e) ::= <<
<@prematch()>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label> = (<labelType>)<endif> MATCHT(<token>,
&FOLLOW_<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure()>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> == NULL)
{
    list_<label>=ctx->vectors->newVector(ctx->vectors);
}
list_<label>->add(list_<label>, <elem>, NULL);
>>

```

```

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHC(<char>);
<checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHRANGE(<a>, <b>);
<checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= LA(1);<\n>
<else>
<label>=(<labelType>)LT(1);<\n>
<endif>
<endif>
if ( <s> )
{
    CONSUME();
    <postmatchCode>
<if(!LEXER)>
    PERRORRECOVERY=ANTLR3_FALSE;
<endif>
    <if(backtracking)>FAILEDFLAG=ANTLR3_FALSE;<\n><endif>
}
else
{
    <ruleBacktrackFailure()>
    <mismatchedSetEx()>
    <@mismatchedSetException()>
<if(LEXER)>
    LRECOVER();
<else>
    RECOVERFROMMISMATCHEDSET(&FOLLOW_set_in_<ruleName><elementIndex>);
<endif>
    goto rule<ruleDescriptor.name>Ex;
}

```

```

}<\n>
>>

mismatchedSetEx() ::= <<
CONSTRUCTEX();
EXCEPTION->type      = ANTLR3_MISMATCHED_SET_EXCEPTION;
EXCEPTION->name      = (void *)ANTLR3_MISMATCHED_SET_NAME;
<if(PARSER)>
EXCEPTION->expectingSet = &FOLLOW_set_in_<ruleName><elementIndex>;
<endif>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
<label>Start = GETCHARINDEX();
MATCHS(<string>);
<checkRuleBacktrackFailure()>
<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT->tstream->istream;
<else>
MATCHS(<string>);
<checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=(<labelType>)LT(1);<\n>
<endif>
MATCHANYT();
<checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = LA(1);<\n>
<endif>
MATCHANY();
<checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
FOLLOWPUSH(FOLLOW_rule.name_in_ruleName<elementIndex>);
<if(label)><label>=<endif><if(scope)>ctx-><scope:delegateName()-><endif><rule.name>(ctx<if(scope)>-
><scope:delegateName()-><endif><if(args)>, <args; separator=" , "><endif>);<\n>
FOLLOWPOP();
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
/* <description> */
<if(label)>
{
  ANTLR3_MARKER <label>Start<elementIndex> = GETCHARINDEX();
  <if(scope)>ctx-><scope:delegateName()-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()-><endif> <if(args)>, <endif><args; separator=" , ">);
  <checkRuleBacktrackFailure()>
}
}

```

```

<label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
<label>->setType(<label>, ANTLR3_TOKEN_INVALID);
<label>->setStartIndex(<label>, <label>Start<elementIndex>);
<label>->setStopIndex(<label>, GETCHARINDEX()-1);
<label>->input = INPUT;
}
<else>
<if(scope)>ctx-><scope:delegateName()>-><endif>m<rule.name>(ctx<if(scope)>-
><scope:delegateName()><endif> <if(args)>, <endif><args; separator=", ">;
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
{
  ANTLR3_UINT32 <label>Start<elementIndex>;
  <labelType> <label>;
  <label>Start<elementIndex> = GETCHARINDEX();
  MATCHC(ANTLR3_CHARSTREAM_EOF);
  <checkRuleBacktrackFailure()>
  <label> = LEXSTATE->tokFactory->newToken(LEXSTATE->tokFactory);
  <label>->setType(<label>, ANTLR3_TOKEN_EOF);
  <label>->setStartIndex(<label>, <label>Start<elementIndex>);
  <label>->setStopIndex(<label>, GETCHARINDEX()-1);
  <label>->input = INPUT->tstream->istream;
}
<else>
  MATCHC(ANTLR3_CHARSTREAM_EOF);
  <checkRuleBacktrackFailure()>
  <endif>
>>

// used for left-recursive rules
recRuleDefArg()          ::= "int <recRuleArg()>"
recRuleArg()             ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name) ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */

```

```

tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( LA(1)==ANTLR3_TOKEN_DOWN ) {
    MATCHT(ANTLR3_TOKEN_DOWN, NULL);
    <checkRuleBacktrackFailure()>
    <children:element()>
    MATCHT(ANTLR3_TOKEN_UP, NULL);
    <checkRuleBacktrackFailure()>
}
<else>
MATCHT(ANTLR3_TOKEN_DOWN, NULL);
<checkRuleBacktrackFailure()>
<children:element()>
MATCHT(ANTLR3_TOKEN_UP, NULL);
<checkRuleBacktrackFailure()>
<endif>
>>

```

```

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */

```

```

validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> )
{
    <ruleBacktrackFailure()>
    <newFPE(...)>
}
>>

```

```

newFPE() ::= <<
    CONSTRUCTEX();
    EXCEPTION->type      = ANTLR3_FAILED_PREDICATE_EXCEPTION;
    EXCEPTION->message   = (void *)"<description>";
    EXCEPTION->ruleName  = (void *)"<ruleName>";
    <\n>
>>

```

```

// F i x e d D F A (if-then-else)

```

```

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
    else
    {

```

```

<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>

    <newNVException()>
    goto rule<ruleDescriptor.name>Ex;

<endif>
}
}
>>

newNVException() ::= <<
CONSTRUCTEX();
EXCEPTION->type      = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
EXCEPTION->message   = (void *)"<description>";
EXCEPTION->decisionNum = <decisionNumber>;
EXCEPTION->state     = <stateNumber>;
<@noViableAltException()>
<\n>
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    int LA<decisionNumber>_<stateNumber> = LA(<k>);
    <edges; separator="\nelse ">
}
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

dfaLoopbackStateDecls() ::= <<
ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;
>>
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
{
    /* dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState)

```

```

*/
int LA<decisionNumber>_<stateNumber> = LA(<k>);
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
}
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>;"

/** A simple edge with an expression. If the expression is satisfied,
* enter to the target state. To handle gated productions, we may
* have to evaluate some predicates for this edge.
*/
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( <if(predicates)>(<predicates>) && <endif>(<labelExpr>))
{
<targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
* decides if this is possible: CodeGenerator.canGenerateSwitch().
*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( LA(<k> ) )
{
<edges; separator="\n">

default:
<if(eotPredictsAlt)>
alt<decisionNumber>=<eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
<newNVEException()>
goto rule<ruleDescriptor.name>Ex;<\n>
<endif>

```

```
}<\n>
```

```
>>
```

```
dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<  
switch ( LA(<k> )
```

```
{
```

```
  <edges; separator="\n">
```

```
}<\n>
```

```
>>
```

```
dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<  
switch ( LA(<k> )
```

```
{
```

```
  <edges; separator="\n"><\n>
```

```
  <if(eotPredictsAlt)>
```

```
  default:
```

```
    alt<decisionNumber>=<eotPredictsAlt>;
```

```
    break;<\n>
```

```
  <endif>
```

```
}<\n>
```

```
>>
```

```
dfaEdgeSwitch(labels, targetState) ::= <<
```

```
<labels: {it |case <it>:}; separator="\n">
```

```
{
```

```
  <targetState>
```

```
}
```

```
  break;
```

```
>>
```

```
// C y c l i c D F A
```

```
/** The code to initiate execution of a cyclic DFA; this is used
```

```
* in the rule to predict an alt just like the fixed DFA case.
```

```
* The <name> attribute is inherited via the parser, lexer, ...
```

```
*/
```

```
dfaDecision(decisionNumber,description) ::= <<
```

```
alt<decisionNumber> = cdfa<decisionNumber>.predict(ctx, RECOGNIZER, ISTREAM,
```

```
&cdfa<decisionNumber>);
```

```
<checkRuleBacktrackFailure()>
```

```
>>
```

```
/* Dump DFA tables as static initialized arrays of shorts(16 bits)/characters(8 bits)
```

```
* which are then used to statically initialize the dfa structure, which means that there
```

```
* is no runtime initialization whatsoever, other than anything the C compiler might
```

```
* need to generate. In general the C compiler will lay out memory such that there is no
```

```
* runtime code required.
```

```
*/
```

```

cyclicDFA(dfa) ::= <<
/** Static dfa state tables for Cyclic dfa:
* <dfa.description>
*/
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] =
{
<dfa.eot; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] =
{
<dfa.eof; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] =
{
<dfa.min; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] =
{
<dfa.max; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] =
{
<dfa.accept; wrap="\n", separator=", ", null="-1">
};
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] =
{
<dfa.special; wrap="\n", separator=", ", null="-1">
};

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty NULL

<dfa.edgeTransitionClassMap.keys:{ table |
static const ANTLR3_INT32 dfa<dfa.decisionNumber>_T<i0>[] =
{
<table; separator=", ", wrap="\n", null="-1">
\};}; null = "">

/* Transition tables are a table of sub tables, with some tables
* reused for efficiency.
*/
static const ANTLR3_INT32 * const dfa<dfa.decisionNumber>_transitions[] =
{
<dfa.transitionEdgeTables:{ xref[dfa<dfa.decisionNumber>_T<xref>]; separator=", ", wrap="\n", null="_empty">
};

<if(dfa.specialStateSTs)>
static ANTLR3_INT32 dfa<dfa.decisionNumber>_sst(p<name> ctx, pANTLR3_BASE_RECOGNIZER recognizer,

```

```

pANTLR3_INT_STREAM is, pANTLR3_CYCLIC_DFA dfa, ANTLR3_INT32 s)
{
    ANTLR3_INT32 _s;

    _s = s;
    switch (s)
    {
        <dfa.specialStateSTs:{state |
        case <i0>:

            <state>}; separator="\n">
        }
        <if(backtracking)>
            if (BACKTRACKING > 0)
            {
                FAILEDFLAG = ANTLR3_TRUE;
                return -1;
            }
        <endif>

        CONSTRUCTEX();
        EXCEPTION->type = ANTLR3_NO_VIABLE_ALT_EXCEPTION;
        EXCEPTION->message = (void *)"<dfa.description>";
        EXCEPTION->decisionNum = <dfa.decisionNumber>;
        EXCEPTION->state = _s;
        <@noViableAltException()>
        return -1;
    }
    <endif>

    <@errorMethod()>

    /* Declare tracking structure for Cyclic DFA <dfa.decisionNumber>
    */
    static
    ANTLR3_CYCLIC_DFA cdfa<dfa.decisionNumber>
    = {
        <dfa.decisionNumber>, /* Decision number of this dfa */
        /* Which decision this represents: */
        (const pANTLR3_UCHAR)"<dfa.description>",
        <if(dfa.specialStateSTs)>
            (C DFA_SPECIAL_FUNC) dfa<dfa.decisionNumber>_sst,
        <else>
            (C DFA_SPECIAL_FUNC) antlr3dfaspecialStateTransition, /* Default special state transition */
        <endif>

        antlr3dfaspecialTransition, /* DFA specialTransition is currently just a default function in the runtime */
        antlr3dfapredict, /* DFA simulator function is in the runtime */

```

```

dfa<dfa.decisionNumber>_eot, /* EOT table */
dfa<dfa.decisionNumber>_eof, /* EOF table */
dfa<dfa.decisionNumber>_min, /* Minimum tokens for each state */
dfa<dfa.decisionNumber>_max, /* Maximum tokens for each state */
dfa<dfa.decisionNumber>_accept, /* Accept table */
dfa<dfa.decisionNumber>_special, /* Special transition states */
dfa<dfa.decisionNumber>_transitions /* Table of transition tables */

};
/* End of Cyclic DFA <dfa.decisionNumber>
* -----
*/
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
* state.
*/
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{
  ANTLR3_UINT32 LA<decisionNumber>_<stateNumber>;<\n>
  ANTLR3_MARKER index<decisionNumber>_<stateNumber>;<\n>

  LA<decisionNumber>_<stateNumber> = LA(1);<\n>
  <if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
  index<decisionNumber>_<stateNumber> = INDEX();<\n>
  REWINDLAST();<\n>
  <endif>
  s = -1;
  <edges; separator="\nelse ">
  <if(semPredState)> <! return input cursor to state before we rewound !>
  SEEK(index<decisionNumber>_<stateNumber>);<\n>
  <endif>
  if ( s>=0 )
  {
  return s;
  }
}
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( <if(predicates)><predicates> && <endif><labelExpr> )
{
  s = <targetStateNumber>;
}<\n>

```

>>

```
/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>
```

// D F A E X P R E S S I O N S

```
andPredicates(left,right) ::= "( (<left> ) && (<right> ) )"
```

```
orPredicates(operands) ::= "(<operands:{o|(<o>)}; separator=\"||\">)"
```

```
notPredicate(pred) ::= "!(<evalPredicate(pred,{})>)"
```

```
evalPredicate(pred,description) ::= "<pred>"
```

```
evalSynPredicate(pred,description) ::= "<pred>(ctx)"
```

```
lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"
```

```
/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
```

```
isolatedLookaheadTest(atom,k,atomAsInt) ::= "LA(<k>) == <atom>"
```

```
lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
((LA<decisionNumber>_<stateNumber> >= <lower>) && (LA<decisionNumber>_<stateNumber> \<= <upper>))
%>
```

```
isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "((LA(<k>) >= <lower>) &&
(LA(<k>) \<= <upper>))"
```

```
setTest(ranges) ::= "<ranges; separator=\" || \">"
```

// A T T R I B U T E S

```
makeScopeSet() ::= <<
```

```
/* makeScopeSet()
```

```
*/
```

```
/** Definition of the <scope.name> scope variable tracking
```

```
* structure. An instance of this structure is created by calling
```

```
* <name>_<scope.name>Push().
```

```
*/
```

```
typedef struct <scopeStruct(sname=scope.name,...)>_struct
```

```

{
  /** Function that the user may provide to be called when the
   * scope is destroyed (so you can free pANTLR3_HASH_TABLES and so on)
   *
   * \param POinter to an instance of this typedef/struct
   */
  void (ANTLR3_CDECL *free) (struct <scopeStruct(sname=scope.name,...)>_struct * frame);

  /* =====
   * Programmer defined variables...
   */
  <scope.attributes:{it |<it.decl>;} separator="\n">

  /* End of programmer defined variables
   * =====
   */
}
<scopeStruct(sname=scope.name,...)>, * <scopeType(sname=scope.name,...)>;

>>

globalAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

ruleAttributeScopeDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDecl(scope)
*/
<makeScopeSet(...)>
<endif>
>>

globalAttributeScopeFuncDecl(scope) ::=
<<
/* globalAttributeScopeFuncDecl(scope)
*/
<if(scope.attributes)>
/* -----
* Function declaration for creating a <name>_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----- */

```

```

<endif>
>>

globalAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name)>
*/
void
<scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function, then call it first
    //
    if (SCOPE_TOP(<scope.name>)->free != NULL)
    {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }

    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-><scopeStack(sname=scope.name,...)>_limit--;
    SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>-
    >get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));
}
<endif>
>>

ruleAttributeScopeFuncDecl(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncDecl(scope)
*/
/* -----
* Function declarations for creating a <name>_<scope.name> scope set
*/
static <scopeType(sname=scope.name,...)> <scopePushName(sname=scope.name,...)>(p<name> ctx);
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope);
/* ----- */

<endif>
>>

```

```

ruleAttributeScopeFuncMacro(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncMacro(scope)
*/
/** Function for popping the top value from a <scopeStack(sname=scope.name,...)>
*/
void
<scopePopName(sname=scope.name,...)>(p<name> ctx)
{
    // First see if the user defined a function they want to be called when a
    // scope is popped/freed.
    //
    // If the user supplied the scope entries with a free function,then call it first
    //
    if (SCOPE_TOP(<scope.name>)->free != NULL)
    {
        SCOPE_TOP(<scope.name>)->free(SCOPE_TOP(<scope.name>));
    }

    // Now we decrement the scope's upper limit bound. We do not actually pop the scope as
    // we want to reuse scope entries if we do continuous push and pops. Most scopes don't
    // next too far so we don't want to keep freeing and allocating them
    //
    ctx-><scopeStack(sname=scope.name,...)>_limit--;
    SCOPE_TOP(<scope.name>) = (<scopeType(sname=scope.name)>)(ctx-><scopeStack(sname=scope.name,...)>-
>get(ctx-><scopeStack(sname=scope.name,...)>, ctx-><scopeStack(sname=scope.name,...)>_limit - 1));
}

<endif>
>>

globalAttributeScopeDef(scope) ::=
<<
/* globalAttributeScopeDef(scope)
*/
<if(scope.attributes)>
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>()
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name)>_limit;
/** Pointer to the top of the stack for the global scope <scopeStack(sname=scope.name)>
*/
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>

```

>>

```
ruleAttributeScopeDef(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeDef(scope)
*/
/** Pointer to the <scope.name> stack for use by <scopePushName(sname=scope.name)>()
* and <scopePopName(sname=scope.name,...)>()
*/
pANTLR3_STACK <scopeStack(sname=scope.name,...)>;
ANTLR3_UINT32 <scopeStack(sname=scope.name,...)>_limit;
<scopeType(sname=scope.name,...)> (*<scopePushName(sname=scope.name,...)>)(struct <name>_Ctx_struct *
ctx);
<scopeType(sname=scope.name,...)> <scopeTopDecl(sname=scope.name,...)>;

<endif>
>>
```

```
globalAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>
```

```
ruleAttributeScopeFuncs(scope) ::= <<
<if(scope.attributes)>
/* ruleAttributeScopeFuncs(scope)
*/
<attributeFuncs(scope)>
<endif>
>>
```

```
globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>
```

```
ruleAttributeScope(scope) ::=
<<
<if(scope.attributes)>
```

```

/* ruleAttributeScope(scope)
*/
ctx-><scopePushName(sname=scope.name,...)> = <scopePushName(sname=scope.name,...)>;
ctx-><scopeStack(sname=scope.name,...)> = antlr3StackNew(0);
ctx-><scopeStack(sname=scope.name,...)>_limit = 0;
<scopeTop(sname=scope.name,...)> = NULL;
<endif>
>>

globalAttributeScopeFree(scope) ::= <<
<if(scope.attributes)>
/* globalAttributeScope(scope)
*/
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

ruleAttributeScopeFree(scope) ::=
<<
<if(scope.attributes)>
/* ruleAttributeScope(scope)
*/
ctx-><scopeStack(sname=scope.name,...)>->free(ctx-><scopeStack(sname=scope.name,...)>);
<endif>
>>

scopeTopDecl(sname) ::= <<
p<name>_<sname>Top
>>

scopeTop(sname) ::= <<
ctx-><scopeTopDecl(sname=sname,...)>
>>

scopePop(sname) ::= <<
<scopePopName(sname=sname,...)>(ctx);
>>

scopePush(sname) ::= <<
p<name>_<sname>Push(ctx)
>>

scopePopName(sname) ::= <<
p<name>_<sname>Pop
>>

scopePushName(sname) ::= <<
p<name>_<sname>Push
>>

```

```
scopeType(sname) ::= <<
p<name>_<sname>_SCOPE
>>
```

```
scopeStruct(sname) ::= <<
<name>_<sname>_SCOPE
>>
```

```
scopeStack(sname) ::= <<
p<name>_<sname>Stack
>>
```

```
attributeFuncs(scope) ::= <<
<if(scope.attributes)>
/* attributeFuncs(scope)
*/
```

```
static void ANTLR3_CDECL <scope.name>Free(<scopeType(sname=scope.name)> scope)
{
    ANTLR3_FREE(scope);
}
```

```
/** \brief Allocate initial memory for a <name> <scope.name> scope variable stack entry and
 *     add it to the top of the stack.
 *
 * \remark
 * By default the structure is freed with ANTLR_FREE(), but you can use the
 * the \@init action to install a pointer to a custom free() routine by
 * adding the code:
 * \code
 * <scopeTop(sname=scope.name)>->free = myroutine;
 * \endcode
 *
 * With lots of comments of course! The routine should be declared in
 * \@members { } as:
 * \code
 * void ANTLR3_CDECL myfunc( <scopeType(sname=scope.name)> ptr).
 * \endcode
 *
 * It should perform any custom freeing stuff that you need (call ANTLR_FREE3, not free())
 * NB: It should not free the pointer it is given, which is the scope stack entry itself
 * and will be freed by the function that calls your custom free routine.
 *
 */
```

```
static <scopeType(sname=scope.name)>
<scopePushName(sname=scope.name)>(p<name> ctx)
{
```

```

/* Pointer used to create a new set of attributes
*/
<scopeType(sname=scope.name)>    newAttributes;

/* Allocate the memory for a new structure if we need one.
*/
if (ctx-><scopeStack(sname=scope.name)>->size(ctx-><scopeStack(sname=scope.name)>) > ctx-
><scopeStack(sname=scope.name)>_limit)
{
    // The current limit value was less than the number of scopes available on the stack so
    // we can just reuse one. Our limit tracks the stack count, so the index of the entry we want
    // is one less than that, or conveniently, the current value of limit.
    //
    newAttributes = (<scopeType(sname=scope.name)>)ctx-><scopeStack(sname=scope.name)>->get(ctx-
><scopeStack(sname=scope.name)>, ctx-><scopeStack(sname=scope.name)>_limit);
}
else
{
    // Need a new allocation
    //
    newAttributes = (<scopeType(sname=scope.name)>
ANTLR3_MALLOC(sizeof(<scopeStruct(sname=scope.name)>));
    if (newAttributes != NULL)
    {
        /* Standard ANTLR3 library implementation
        */
        ctx-><scopeStack(sname=scope.name)>->push(ctx-><scopeStack(sname=scope.name)>, newAttributes,
(void (*)(void *))<scope.name>Free);
    }
}

// Blank out any previous free pointer, the user might or might install a new one.
//
newAttributes->free = NULL;

// Indicate the position in the available stack that the current level is at
//
ctx-><scopeStack(sname=scope.name)>_limit++;

/* Return value is the pointer to the new entry, which may be used locally
* without de-referencing via the context.
*/
return newAttributes;
}<\n>

<endif>
>>
returnStructName(r) ::= "<r.name>_return"

```

```

returnType() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<else>
ANTLR3_BOOLEAN
<endif>
%>

/** Generate the C type associated with a single or multiple return
 * value(s).
 */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<referencedRule.grammar.recognizerName>_<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
%>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<it.name><endif>
>>

/** Using a type to init value map, try to init a type; if not in table
 * must be an object, default value is "0".
 */
initValue(typeName) ::= <<
= <cTypeInitMap.(typeName)>
>>

/** Define a rule label */
ruleLabelDef(label) ::= <<
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text>;
#undef RETURN_TYPE_<label.label.text>
#define RETURN_TYPE_<label.label.text> <ruleLabelType(referencedRule=label.referencedRule)><\n>

```

```

>>
/** Rule label default value */
ruleLabelInitVal(label) ::= <<
>>

ASTLabelType() ::=
"<if(recognizer.ASTLabelType)><recognizer.ASTLabelType><else>pANTLR3_BASE_TREE<endif>"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
typedef struct <ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>_struct
{
<if(!TREE_PARSER)>
/** Generic return elements for ANTLR3 rules that are not in tree parsers or returning trees
 */
pANTLR3_COMMON_TOKEN start;
pANTLR3_COMMON_TOKEN stop;
<else>
<recognizer.ASTLabelType> start;
<recognizer.ASTLabelType> stop;
<endif>
<@ruleReturnMembers()>
<ruleDescriptor.returnScope.attributes:{it |<it.type> <it.name>;}; separator="\n">
}
<ruleDescriptor.grammar.recognizerName>_<ruleDescriptor:returnStructName()>;<\n><\n>
<endif>
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{it |<it.decl>}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name>=<expr>";

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly
 */
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get( ctx->SCOPE_STACK(<scope>), ctx-
>SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1 ))-><attr.name>

```

```

<else>
<if(index)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>),
(ANTLR3_UINT32)<index> ) )-><attr.name>
<else>
(SCOPE_TOP(<scope>))-><attr.name>
<endif>
<endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get( ctx->SCOPE_STACK(<scope>), ctx-
>SCOPE_STACK(<scope>)->size(ctx->SCOPE_STACK(<scope>)) - <negIndex> - 1 ) )-><attr.name> = <expr>;
<else>
<if(index)>
((SCOPE_TYPE(<scope>))(ctx->SCOPE_STACK(<scope>)->get(ctx->SCOPE_STACK(<scope>),
(ANTLR3_UINT32)<index> ) )-><attr.name> = <expr>;
<else>
(SCOPE_TOP(<scope>))-><attr.name>=<expr>;
<endif>
<endif>
%>

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size(>0 && $function::name.equals("foo"))}?
*/
isolatedDynamicScopeRef(scope) ::= "ctx->SCOPE_STACK(<scope>)"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
<scope>.<attr.name>
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<

```

```

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>=<expr>;
<else>
<attr.name>=<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach
//
tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
tokenLabelPropertyRef_tree(scope,attr) ::= "(<scope>->tree)"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>->getText(<scope>->toInt32(<scope>->getText(<scope>)))"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>.start)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>.stop)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>.tree)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(STRSTREAM->toStringSS(STRSTREAM, <scope>.start, <scope>.start))
<else>
(STRSTREAM->toStringTT(STRSTREAM, <scope>.start, <scope>.stop))
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>.st"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(<scope>->getType(<scope>))"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(<scope>->getLine(<scope>))"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(<scope>->getCharPositionInLine(<scope>))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(<scope>->getChannel(<scope>))"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(<scope>->getTokenIndex(<scope>))"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(<scope>->getText(<scope>))"

```

```

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop"
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
INPUT->toStringSS(INPUT, ADAPTOR->getTokenStartIndex(ADAPTOR, retval.start), ADAPTOR-
>getTokenStopIndex(ADAPTOR, retval.start))
<else>
STRSTREAM->toStringTT(STRSTREAM, retval.start, LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "LEXER->getText(LEXER)"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "LEXSTATE->tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "LEXSTATE->tokenStartCharPositionInLine"
lexerRulePropertyRef_channel(scope,attr) ::= "LEXSTATE->channel"
lexerRulePropertyRef_start(scope,attr) ::= "LEXSTATE->tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(LEXER->getCharIndex(LEXER)-1)"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_int(scope,attr) ::= "LEXER->getText(LEXER)->toInt32(LEXER->getText(LEXER))"

// setting $st and $tree is allowed in local rule. everything else is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree=<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st=<expr>;"

/** How to deal with an @after for C targets. Because we cannot rely on
 * any garbage collection, after code is executed even in backtracking
 * mode. Must be documented clearly.
 */
execAfter(action) ::= <<
{
  <action>
}
>>

/** How to execute an action (when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if ( <actions.(actionScope).synpredgate> )
{
  <action>
}

```

```

<else>
if ( BACKTRACKING == 0 )
{
    <action>
}
<endif>
<else>
{
    <action>
}
<endif>
>>

// M I S C (properties, etc...)

bitsetDeclare(name, words64) ::= <<

/** Bitset defining follow set for error recovery in rule state: <name> */
static ANTLR3_BITWORD <name>_bits[] = { <words64: {it |ANTLR3_UINT64_LIT(<it>)}; separator=", "> };
static ANTLR3_BITSET_LIST <name> = { <name>_bits, <length(words64)> };
>>

bitset(name, words64) ::= <<
antlr3BitsetSetAPI(&<name>);<\n>
>>

codeFileExtension() ::= ".c"

true_value() ::= "ANTLR3_TRUE"
false_value() ::= "ANTLR3_FALSE"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/C.stg
No license file was found, but licenses were detected in source scan.

/*
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```

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```
*/
```

```
/** Template subgroup to add template rewrite output
```

```
* If debugging, then you'll also get STDbg.stg loaded.
```

```
*/
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
import org.antlr.stringtemplate.*;
```

```
import org.antlr.stringtemplate.language.*;
```

```
import java.util.HashMap;
```

```
>>
```

```
/** Add this to each rule's return value struct */
```

```
@returnScope.ruleReturnMembers() ::= <<
```

```
public StringTemplate st;
```

```
public Object getTemplate() { return st; }
```

```
public String toString() { return st==null?null:st.toString(); }
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<@super.members(>
```

```
protected StringTemplateGroup templateLib =
```

```
    new StringTemplateGroup("<name>Templates", AngleBracketTemplateLexer.class);
```

```
public void setTemplateLib(StringTemplateGroup templateLib) {
```

```
    this.templateLib = templateLib;
```

```
}
```

```
public StringTemplateGroup getTemplateLib() {
```

```
    return templateLib;
```

```
}
```

```
/** allows convenient multi-value initialization:
```

```
* "new STAttrMap().put(...).put(...)"
```

```
*/
```

```
@SuppressWarnings("serial")
```

```
public static class STAttrMap extends HashMap<String, Object> {
```

```

public STAttrMap put(String attrName, Object value) {
    super.put(attrName, value);
    return this;
}
}
>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, {<label>.getTemplate()})>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <alts:rewriteTemplateAlt(); separator="else ">
    <if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.getTokenStream()).replace(
    input.getTreeAdaptor().getTokenStartIndex(retval.start),
    input.getTreeAdaptor().getTokenStopIndex(retval.start),
    retval.st);
<else>
((TokenRewriteStream)input).replace(
    ((Token)retval.start).getTokenIndex(),
    input.LT(-1).getTokenIndex(),
    retval.st);
<endif>
>>

rewriteTemplateAlt(alt) ::= <<
// <alt.description>
<if(alt.pred)>
if (<alt.pred>) {
    retval.st = <alt.alt>;
}<\n>
<else>

```

```

{
    retval.st = <alt.alt>;
}<\n>
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name,args) ::= <%
templateLib.getInstanceOf("<name>"<if(args)>,
    new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
<endif>)
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
templateLib.getInstanceOf(<expr><if(args)>,
    new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
<endif>)
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
new StringTemplate(templateLib, "<template>"<if(args)>,
    new STAttrMap()<args:{a | .put("<a.name>", <a.value>)}>
<endif>)
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).setAttribute("<attrName>",<expr>);
>>

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<

```

```
new StringTemplate(templateLib,<stringExpr>
```

```
>>
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Java/ST.stg
```

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

```
/*
```

```
[The "BSD license"]
```

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```

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```
*/
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
<if(!TREE_PARSER)><! tree parser would already have imported !>
```

```
import org.antlr.runtime.tree.*;<\n>
```

```
<endif>
```

```
>>
```

```
@genericParser.members() ::= <<
```

```
<@super.members(>
```

```
<parserMembers(>
```

```
>>
```

```
/** Add an adaptor property that knows how to build trees */
```

```

parserMembers() ::= <<
protected var adaptor:TreeAdaptor = new CommonTreeAdaptor();<\n>
override public function set treeAdaptor(adaptor:TreeAdaptor):void {
    this.adaptor = adaptor;
    <grammar.directDelegates:{g|<g.delegateName().treeAdaptor = this.adaptor;}>
}
override public function get treeAdaptor():TreeAdaptor {
    return adaptor;
}
>>

@returnScope.ruleReturnMembers() ::= <<
<ASTLabelType> tree;
public function get tree():Object { return tree; }
>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
var root_0:<ASTLabelType> = null;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,
ruleDescriptor.wildcardTreeListLabels]:{it |var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it |var <it.label.text>_tree:<ASTLabelType>=null;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {it |var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
>>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = <ASTLabelType>(adaptor.nil());<\n>
<endif>
<endif>
<endif>

```

```

>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<token>.add(<label>);<\n>
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabel(elem=label,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule.name>.add(<label>.tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabel(label, {<label>.tree})>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>stream_<rule>.add(<label>.tree);
>>

```

```

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabel(label, {<label>.tree})>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::=
<<

// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {<n>
<endif>
<prevRuleRootRef(>).tree = root_0;
<rewriteCodeLabels(>
root_0 = <ASTLabelType>(adaptor.nil());
<alts:rewriteAlt(> separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef(>).tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
input.replaceChildren(adaptor.getParent(retval.start),
adaptor.getChildIndex(retval.start),
adaptor.getChildIndex(_last),
retval.tree);
<endif>
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER)>
<prevRuleRootRef(>).tree = root_0;
<else>

```

```

<if(!rewriteMode)>
<prevRuleRootRef(>.tree = root_0;
<endif>
<endif>
<if(backtracking)>
}
<endif>
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
  :{it |var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
  separator="\n"
>
<referencedTokenListLabels
  :{it |var stream_<it>:RewriteRule<rewriteElementType>Stream=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
  separator="\n"
>
<referencedWildcardLabels
  :{it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard
<it>",<it>)};
  separator="\n"
>
<referencedWildcardListLabels
  :{it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"wildcard
<it> ",list_<it>)};
  separator="\n"
>
<referencedRuleLabels
  :{it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.tree:null)};
  separator="\n"
>
<referencedRuleListLabels
  :{it |var stream_<it>:RewriteRuleSubtreeStream=new RewriteRuleSubtreeStream(adaptor,"token
<it> ",list_<it>)};
  separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,rewriteBlockLevel,
referencedElementsDeep, // all nested refs

```

```

referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
if ( <referencedElementsDeep:{el | stream_<el>.hasNext}; separator="||"> ) {
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if ( !( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) ) {
  throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.hasNext}; separator="||"> ) {
  <alt>
}
<referencedElements:{el | stream_<el>.reset();<\n>}>
>>

```

```

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>) {
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>

```

```

<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
adaptor.addChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<

```

```

root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>));<\n>
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
adaptor.addChild(root_<treeLevel>, <createImaginaryNode(token,terminalOptions,args)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<createImaginaryNode(token,terminalOptions,args)>,
root_<treeLevel>));<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<rule>.nextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<rule>.nextNode(), root_<treeLevel>));<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.addChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<action>, root_<treeLevel>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<

```

```

adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(stream_<label>.nextNode(), root_<treeLevel>));<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.addChild(root_<treeLevel>, stream_<label>.nextTree());<\n>
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(tokenType<<if(args)>, <args; separator=", "><endif>)
<else>
<ASTLabelType>(adaptor.create(tokenType, <args; separator=", "><if(!args)>"<tokenType>"<endif>))
<endif>
>>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextToken()<<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.create(token, <args; separator=", ">)
<else>
stream_<token>.nextNode()
<endif>
<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ActionScript/AST.stg
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```

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\*/

/\*\* Templates for building ASTs during tree parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* Each combination has its own template except that label/no label

\* is combined into tokenRef, ruleRef, ...

\*/

group ASTTreeParser;

/\*\* Add a variable to track last element matched \*/

ruleDeclarations() ::= <<

<super.ruleDeclarations()>

<ASTLabelType> \_first\_0 = null;

<ASTLabelType> \_last = null;<\n>

>>

/\*\* What to emit when there is no rewrite rule. For auto build

\* mode, does nothing.

\*/

```

noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(rewriteMode)>
retval.tree = (<ASTLabelType>)_first_0;
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
    retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
    match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>

```

```

>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( state.backtracking==0 )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>

```

```

root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>><endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>><endif>
<endif>
}
)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite()> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(..., postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);

```

```

<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)></endif>
<endif>
}
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(elem=label+".getTree()",...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<

```

```

<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking==0 ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Perl5/ASTTreeParser.stg
```

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```
/*
```

```
[The "BSD license"]
```

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```

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```

```
*/
```

```

/** Template overrides to add debugging to AST stuff. Dynamic inheritance
 * hierarchy is set up as ASTDbg : AST : Dbg : Java by code generator.
 */

parserMembers() ::= <<
protected DebugTreeAdaptor adaptor;
public void setTreeAdaptor(TreeAdaptor adaptor) {
<if(grammar.grammarIsRoot)>
this.adaptor = new DebugTreeAdaptor(dbg,adaptor);
<else>
this.adaptor = (DebugTreeAdaptor)adaptor; // delegator sends dbg adaptor
<endif>
<grammar.directDelegates: { g|<g:delegateName()>.setTreeAdaptor(this.adaptor); }>
}
public TreeAdaptor getTreeAdaptor() {
return adaptor;
}
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
>>

createListenerAndHandshake() ::= <<
DebugEventSocketProxy proxy =
new DebugEventSocketProxy(this,port,<if(TREE_PARSER)>input.getTreeAdaptor()<else>adaptor<endif>);
setDebugListener(proxy);
set<inputStreamType>(new Debug<inputStreamType>(input,proxy));
try {
proxy.handshake();
}
catch (IOException ioe) {
reportError(ioe);
}
>>

@ctorForRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
proxy.setTreeAdaptor(adap);
>>

@ctorForProfilingRootGrammar.finally() ::= <<
TreeAdaptor adap = new CommonTreeAdaptor();
setTreeAdaptor(adap);
>>

```

```
@ctorForPredefinedListener.superClassRef() ::= "super(input, dbg);"
```

```
@ctorForPredefinedListener.finally() ::=<<<  
<if(grammar.grammarIsRoot)> <! don't create new adaptor for delegates !>  
TreeAdaptor adap = new CommonTreeAdaptor();  
setTreeAdaptor(adap);  
<endif>  
>>
```

```
@rewriteElement.pregen() ::= "dbg.location(<e.line>,<e.pos>);"
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/Java/ASTDbg.stg
```

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

```
/*
```

```
[The "BSD license"]
```

```
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```
*/
```

```
asTypeInitMap ::= [
```

```
"int": "0",
```

```
"uint": "0",
```

```
"Number": "0.0",
```

```

    "Boolean":"false",
    default:"null" // anything other than an atomic type
]

/** The overall file structure of a recognizer; stores methods for rules
 * and cyclic DFAs plus support code.
 */
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
           docComment, recognizer,
           name, tokens, tokenNames, rules, cyclicDFAs,
           bitsets, buildTemplate, buildAST, rewriteMode, profile,
           backtracking, synpreds, memoize, numRules,
           fileName, ANTLRVersion, generatedTimestamp, trace,
           scopes, superClass, literals) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
package<if(actions.(actionScope).package)> <actions.(actionScope).package><endif> {
    <actions.(actionScope).header>
    <@imports>
import org.antlr.runtime.*;
<if(TREE_PARSER)>
    import org.antlr.runtime.tree.*;
<endif>
    <@end>

    <docComment>
    <recognizer>
}
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="Token",
       superClass="Lexer") ::= <<
public class <grammar.recognizerName> extends
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass>
<<@end><endif> {
    <tokens:{it |public static const <it.name>:int=<it.type>;}; separator="\n">
    <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>}>
    <actions.lexer.members>

    // delegates
    <grammar.delegates:
        {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public var <g.delegateName()>:<g.recognizerName>;}; separator="\n">
    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

    public function <grammar.recognizerName>(<grammar.delegators:{g|<g.delegateName()>:<g.recognizerName>,

```

```

}>input:CharStream = null, state:RecognizerSharedState = null) {
    super(input, state);
    <cyclicDFAs:cyclicDFACTOR(>
<if(memoize)>
<if(grammar.grammarIsRoot)>
    this.state.ruleMemo = new Array(<numRules>+1);<\n> <! index from 1..n !>
<endif>
<endif>
    <grammar.directDelegates:
        {g|<g:delegateName()> = new <g.recognizerName>(<trunc(g.delegators):{p|<p:delegateName()>, }>this,
input, this.state);}; separator="\n">
    <grammar.delegators:
        {g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
    <last(grammar.delegators):{g|gParent = <g:delegateName()>;}>
    }
    public override function get grammarFileName():String { return "<fileName>"; }

<if(filterMode)>
    <filteringNextToken()>
<endif>
    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override function nextToken():Token {
    while (true) {
        if ( input.LA(1)==CharStreamConstants.EOF ) {
            return TokenConstants.EOF_TOKEN;
        }
        this.state.token = null;
        this.state.channel = TokenConstants.DEFAULT_CHANNEL;
        this.state.tokenStartCharIndex = input.index;
        this.state.tokenStartCharPositionInLine = input.charPositionInLine;
        this.state.tokenStartLine = input.line;
        this.state.text = null;
        try {

```

```

var m:int = input.mark();
this.state.backtracking=1; <! means we won't throw slow exception !>
this.state.failed=false;
mTokens();
this.state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if ( this.state.failed ) {
    input.rewindTo(m);
    input.consume(); <! advance one char and try again !>
}
else {
    emit();
    return this.state.token;
}
}
catch (re:RecognitionException) {
    // shouldn't happen in backtracking mode, but...
    reportError(re);
    recover(re);
}
}
// Not reached - For ActionScript compiler
throw new Error();
}

public override function memoize(input:IntStream,
    ruleIndex:int,
    ruleStartIndex:int):void
{
if ( this.state.backtracking>1 ) super.memoize(input, ruleIndex, ruleStartIndex);
}

public override function alreadyParsedRule(input:IntStream, ruleIndex:int):Boolean {
if ( this.state.backtracking>1 ) return super.alreadyParsedRule(input, ruleIndex);
return false;
}
>>

actionGate() ::= "this.state.backtracking==0"

filteringActionGate() ::= "this.state.backtracking==1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass,
    labelType, members, rewriteElementType,
    filterMode, ASTLabelType="Object") ::= <<

```

```

public class <grammar.recognizerName> extends
<if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else><@superClassName><superClass
><@end><endif> {
<if(grammar.grammarIsRoot)>
    public static const tokenNames:Array = [
        "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
    ];<n>
<endif>
    <tokens:{it |public static const <it.name>:int=<it.type>;}; separator="\n">

    // delegates
    <grammar.delegates: {g|public var <g.delegateName():<g.recognizerName>;}; separator="\n">
    // delegators
    <grammar.delegators:
        {g|public var <g.delegateName():<g.recognizerName>;}; separator="\n">
    <last(grammar.delegators):{g|public var gParent:<g.recognizerName>;}>

    <scopes:{it |<if(it.isDynamicGlobalScope)><globalAttributeScope(it)><endif>>
    <@members>
    <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
    public function <grammar.recognizerName>(<grammar.delegators:{g|<g.delegateName():<g.recognizerName>,
}>input:<inputStreamType>, state:RecognizerSharedState = null) {
        super(input, state);
        <cyclicDFAs:cyclicDFACtor(>
        <parserCtorBody(>
        <grammar.directDelegates:
            {g|<g.delegateName() = new <g.recognizerName>(<trunc(g.delegators):{p|<p.delegateName()>, }>this,
input, this.state);}; separator="\n">
        <grammar.indirectDelegates:{g | <g.delegateName() = <g.delegator:delegateName()>.<g.delegateName()>;};
separator="\n">
        <last(grammar.delegators):{g|gParent = <g.delegateName()>;}>
    }
    <@end>

    public override function get tokenNames():Array { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; }
    public override function get grammarFileName():String { return "<fileName>"; }

    <members>

    <rules; separator="\n\n">

    <! generate rule/method definitions for imported rules so they
        appear to be defined in this recognizer. !>
    // Delegated rules
    <grammar.delegatedRules:{ruleDescriptor|
        public function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope()>):<returnType(> {
    <if(ruleDescriptor.hasReturn Value)>return

```

```

<endif><ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attribut
es:{a|<a.name>}; separator=", ">); \}}; separator="\n">

<synpreds:{p | <synpred(p)>>>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>},
        words64=it.bits)>>>
}
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new Array(<length(grammar.allImportedRules)>+1);<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType="Object",
superClass="Parser", labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
        bitsets, "TokenStream", superClass,
        labelType, members, "Token",
        false, ASTLabelType)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
        numRules, bitsets, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
        superClass="TreeParser", members={<actions.treeparser.members>}) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
        bitsets, "TreeNodeStream", superClass,
        labelType, members, "Node",
        filterMode, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.

```

```

*/
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>
public final function <ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>):void {
    <ruleLabelDefs()>
<if(trace)>
    traceIn("<ruleName>_fragment", <ruleDescriptor.index>);
    try {
        <block>
    }
    finally {
        traceOut("<ruleName>_fragment", <ruleDescriptor.index>);
    }
<else>
    <block>
<endif>
}
// $ANTLR end <ruleName>
>>

synpred(name) ::= <<
public final function <name>():Boolean {
    this.state.backtracking++;
<@start()>
    var start:int = input.mark();
    try {
        <name>_fragment(); // can never throw exception
    } catch (re:RecognitionException) {
        trace("impossible: "+re);
    }
    var success:Boolean = !this.state.failed;
    input.rewindTo(start);
<@stop()>
    this.state.backtracking--;
    this.state.failed=false;
    return success;
}<\n>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( this.state.backtracking>0 && alreadyParsedRule(input, <ruleDescriptor.index> ) ) { return <ruleReturnValue()>;
}

```

```

<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.failed) return <ruleReturnValue(>>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (this.state.backtracking>0) {this.state.failed=true; return <ruleReturnValue(>>};<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
// $ANTLR start <ruleName>
// <fileName>:<description>
public final function <ruleName>(<ruleDescriptor.parameterScope:parameterScope(>>):<returnType(>> {
  <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp(>
  <ruleDeclarations(>
  <ruleLabelDefs(>
  <ruleDescriptor.actions.init>
  <@preamble(>
  try {
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp(>
    <(ruleDescriptor.actions.after):execAction(>
  }
  <if(exceptions)>
    <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
  <else>
  <if(!emptyRule)>
  <if(actions.(actionScope).rulecatch)>
    <actions.(actionScope).rulecatch>
  <else>
    catch (re:RecognitionException) {
      reportError(re);
      recoverStream(input,re);
      <@setErrorReturnValue(>
    }<\n>
  <endif>
  <endif>
  <endif>
}

```

```

finally {
    <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
    }
    <@postamble()>
    return <ruleReturnValue()>;
}
// $ANTLR end <ruleName>
>>

catch(decl,action) ::= <<
catch (<e.decl>) {
    <e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
var retval:<returnType()> = new <returnType()>();
retval.start = input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
var <a.name>:<a.type> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
var <ruleDescriptor.name>_startIndex:int = input.index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {it |<it>_stack.push(new Object());}; separator="\n">
<ruleDescriptor.ruleScope: {it |<it.name>_stack.push(new Object());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {it |<it>_stack.pop();}; separator="\n">
<ruleDescriptor.ruleScope: {it |<it.name>_stack.pop();}; separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it |var <it.label.text>:<labelType>=null;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]

```

```

    :{it |var list_<it.label.text>:Array=null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:{ll|var <ll.label.text>:RuleReturnScope = null;}; separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |var <it.label.text>:<labelType>=null;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |var <it.label.text>:int;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it |var list_<it.label.text>:Array=null;}; separator="\n"
>
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = input.LT(-1);<\n>
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if ( this.state.backtracking>0 ) { memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex); }
<endif>
<endif>
>>

```

/\*\* How to generate a rule in the lexer; naked blocks are used for

```

* fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start <ruleName>
public final function m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(>):void {
    <if(trace)>traceIn("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    try {
<if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block><\n>
<else>
        var _type:int = <ruleName>;
        var _channel:int = DEFAULT_TOKEN_CHANNEL;
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>
        <ruleCleanUp()>
        this.state.type = _type;
        this.state.channel = _channel;
        <(ruleDescriptor.actions.after):execAction()>
<endif>
    }
    finally {
        <if(trace)>traceOut("<ruleName>", <ruleDescriptor.index>);<endif>
        <ruleScopeCleanUp()>
        <memoize()>
    }
}
// $ANTLR end <ruleName>
>>

```

/\*\* How to generate code for the implicitly-defined lexer grammar rule

\* that chooses between lexer rules.

\*/

```
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
```

```
public override function mTokens():void {
```

```
    <block><\n>
```

```
}
```

```
>>
```

```
// S U B R U L E S
```

```
/** A (...) subrule with multiple alternatives */
```

```

block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
  <alts:{ a | <altSwitchCase(i, a)>}>
}
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
var alt<decisionNumber>:int=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
  <alts:{ a | <altSwitchCase(i, a)>}>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>

```

```

var cnt<decisionNumber>:int=0;
<decls>
<@preloop()>
loop<decisionNumber>:
do {
  var alt<decisionNumber>:int=<maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
  <alts:{a | <altSwitchCase(i, a)>}>
  default :
    if ( cnt<decisionNumber> >= 1 ) break loop<decisionNumber>;
    <ruleBacktrackFailure()>
    throw new EarlyExitException(<decisionNumber>, input);
    <! Need to add support for earlyExitException debug hook !>
  }
  cnt<decisionNumber>++;
} while (true);
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/\*\* A (..)\* block with 1 or more alternatives \*/

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

// <fileName>:<description>

<decls>

<@preloop()>

loop<decisionNumber>:

do {

var alt<decisionNumber>:int=<maxAlt>;

<@predecision()>

<decision>

<@postdecision()>

switch (alt<decisionNumber>) {

<alts:{a | <altSwitchCase(i, a)>}>

default :

break loop<decisionNumber>;

}

} while (true);

<@postloop()>

>>

closureBlockSingleAlt ::= closureBlock

/\*\* Optional blocks (x)? are translated to (x|) by before code generation

```

* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
* number. A DFA predicts the alternative and then a simple switch
* does the jump to the code that actually matches that alternative.
*/
altSwitchCase(altNum, alt) ::= <<
case <altNum> :
  <@prealt(>
  <alt>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations(>
<elements:element(>
<rew>
<@cleanup(>
}
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element(e) ::= <<
<@prematch(>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label>=<labelType><(<endif>matchStream(input,<token>,FOLLOW_<token>_in_<ruleName>><element
Index>><if(label)>><endif>; <checkRuleBacktrackFailure(>
>>

/** ids+=ID */

```

```

tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, label)>
>>

```

```

listLabel(label,elem) ::= <<
if (list_<label>==null) list_<label>=new Array();
list_<label>.push(<elem>);<\n>
>>

```

```

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
match(<char>); <checkRuleBacktrackFailure()>
>>

```

```

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
matchRange(<a>,<b>); <checkRuleBacktrackFailure()>
>>

```

```

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label>= input.LA(1);<\n>
<else>
<label>=<labelType>(input.LT(1));<\n>
<endif>
<endif>
<endif>
if ( <s> ) {
    input.consume();
    <postmatchCode>
<if(!LEXER)>
    this.state.errorRecovery=false;
<endif>
    <if(backtracking)>this.state.failed=false;<endif>
}
else {
    <ruleBacktrackFailure()>
    <@mismatchedSetException()>
<if(LEXER)>
    throw recover(new MismatchedSetException(null,input));<\n>

```

```

<else>
    throw new MismatchedSetException(null,input);
    <! use following code to make it recover inline; remove throw mse;
    recoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
    !>
<endif>
}<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
var <label>Start:int = charIndex;
matchString(<string>); <checkRuleBacktrackFailure()>
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start, charIndex-1);
<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
matchString(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=<labelType>(input.LT(1));<\n>
<endif>
matchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabel(label, label)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>

```

```

<endif>
matchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 *
 * GMS: Note: do not use post-decrement operator! ASC produces bad code for exceptions in this case.
 * See: https://bugs.adobe.com/jira/browse/ASC-3625
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
pushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endif><if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<n>
state._fsp = state._fsp - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=1 */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> = CommonToken.createFromStream(input, TokenConstants.INVALID_TOKEN_TYPE,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<label>.line = <label>StartLine<elementIndex>;

```

```

<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope:delegateName().<endif>m<rule.name>(<args; separator=" ">);
<checkRuleBacktrackFailure()>
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
var <label>Start<elementIndex>:int = charIndex;
var <label>StartLine<elementIndex>:int = line;
var <label>StartCharPos<elementIndex>:int = charPositionInLine;
match(EOF); <checkRuleBacktrackFailure()>
var <label>:<labelType> = CommonToken.createFromStream(input, EOF,
TokenConstants.DEFAULT_CHANNEL, <label>Start<elementIndex>, charIndex-1);
<label>.line = <label>StartLine<elementIndex>;
<label>.charPositionInLine = <label>StartCharPos<elementIndex>;
<else>
match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

// used for left-recursive rules
recRuleDefArg()          ::= "var <recRuleArg()>:int"
recRuleArg()             ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=${<ruleName>}_primary.tree;"
recRuleSetReturnAction(src,name) ::= "${<name>}=${<src>}.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenConstants.DOWN ) {
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>

```

```

matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure(>
<children:element(>
matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure(>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !( <evalPredicate(pred,description)> ) ) {
    <ruleBacktrackFailure(>
    throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure(>
    throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <! Need to add hook for noViableAltException() !>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */

```

```

dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
    alt<decisionNumber>=<eotPredictsAlt>;
}<\n>
<endif>
<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) {
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k> ) ) {
<edges; separator="\n">
default:
<if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    throw new NoViableAltException("<description>", <decisionNumber>, <stateNumber>, input);<\n>
    <! Need to add hook for noViableAltException !>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k> ) ) {

```

```

    <edges; separator="\n">
  }<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ( input.LA(<k>) ) {
<edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it |case <it>:}; separator="\n">
{
    <targetState>
}
break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = dfa<decisionNumber>.predict(input);
>>

cyclicDFACtor(dfa) ::= <<

dfa<dfa.decisionNumber> = new DFA(this, <dfa.decisionNumber>,
    "<dfa.description>",
    DFA<dfa.decisionNumber>_eot, DFA<dfa.decisionNumber>_eof, DFA<dfa.decisionNumber>_min,
    DFA<dfa.decisionNumber>_max, DFA<dfa.decisionNumber>_accept, DFA<dfa.decisionNumber>_special,
    DFA<dfa.decisionNumber>_transition<if(dfa.specialStateSTs)>,
    DFA<dfa.decisionNumber>_specialStateTransition<endif>);

>>
/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this

```

```

* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<

private const DFA<dfa.decisionNumber>_eot:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedEOT; wrap=\""+\n  \>");
private const DFA<dfa.decisionNumber>_eof:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedEOF; wrap=\""+\n  \>");
private const DFA<dfa.decisionNumber>_min:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedMin; wrap=\""+\n  \>", true);
private const DFA<dfa.decisionNumber>_max:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedMax; wrap=\""+\n  \>", true);
private const DFA<dfa.decisionNumber>_accept:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedAccept; wrap=\""+\n  \>");
private const DFA<dfa.decisionNumber>_special:Array =
  DFA.unpackEncodedString("<dfa.javaCompressedSpecial; wrap=\""+\n  \>");
private const DFA<dfa.decisionNumber>_transition:Array = [
  <dfa.javaCompressedTransition: {s|DFA.unpackEncodedString("<s; wrap=\""+\n\>"); separator=",\n">
];
<if(dfa.specialStateSTs)>
  private function DFA<dfa.decisionNumber>_specialStateTransition(dfa:DFA, s:int, _input:InputStream):int {
    <if(LEXER)>
      var input:InputStream = _input;
    <endif>
    <if(PARSER)>
      var input:TokenStream = TokenStream(_input);
    <endif>
    <if(TREE_PARSER)>
      var input:TreeNodeStream = TreeNodeStream(_input);
    <endif>
    var _s:int = s;
    switch ( s ) {
      <dfa.specialStateSTs: {state |
        case <i0> : <! compressed special state numbers 0..n-1 !>
          <state>}; separator="\n">
    }
  }
<if(backtracking)>
  if (this.state.backtracking>0) {this.state.failed=true; return -1;}<\n>
<endif>
  throw dfa.error(new NoViableAltException(dfa.description, <dfa.decisionNumber>, _s, input));
}<\n>
<endif>

protected var dfa<dfa.decisionNumber>:DFA; // initialized in constructor

>>

```

```

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
var LA<decisionNumber>_<stateNumber>:int = input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
var index<decisionNumber>_<stateNumber>:int = input.index;
input.rewind();<\n>
<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>);<\n>
<endif>
if ( s>=0 ) return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<operands; separator=\"||\">"

notPredicate(pred) ::= "!(<evalPredicate(pred,{}>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>===<atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable

```

```

* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)==<atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lowerAsInt> && LA<decisionNumber>_<stateNumber> \<=
<upperAsInt>)
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(input.LA(<k>) >=
<lowerAsInt> && input.LA(<k>) \<= <upperAsInt>)"

setTest(ranges) ::= <<
<ranges; separator="|">
>>

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>_stack:Array = new Array();<\n>
<endif>
>>

ruleAttributeScope(scope) ::= <<
<if(scope.attributes)>
protected var <scope.name>_stack:Array = new Array();<\n>
<endif>
>>

returnStructName() ::= "<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnStructName()>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

/** Generate the Java type associated with a single or multiple return
* values.
*/
ruleLabelType(referencedRule) ::= <<

```

```

<if(referencedRule.hasMultipleReturnValues)>
<returnStructName()>
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><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) ::= <<
<asTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
var <label.label.text>:<ruleLabelType(referencedRule=label.referencedRule)> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public static class <returnType()> extends <if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope {
  <scope.attributes:{it |public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
};
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{it |<it.name>:<it.type>;}; separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> =<expr>";"

```

```

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name>
<else>
<if(index)>
<scope>_stack[<index>].<attr.name>
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
<scope>_stack[<scope>_stack.length-<negIndex>-1].<attr.name> =<expr>;
<else>
<if(index)>
<scope>_stack[<index>].<attr.name> =<expr>;
<else>
<scope>_stack[<scope>_stack.length-1].<attr.name> =<expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=null?<scope>.values.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.values.<attr.name>
<else>
<attr.name>
<endif>
>>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<

```

```

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.values.<attr.name> =<expr>;
<else>
<attr.name> =<expr>;
<endif>
>>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "(<scope>!=null?<scope>.text:null)"
tokenLabelPropertyRef_type(scope,attr) ::= "(<scope>!=null?<scope>.type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "(<scope>!=null?<scope>.line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(<scope>!=null?<scope>.charPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(<scope>!=null?<scope>.channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "(<scope>!=null?<scope>.tokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(<scope>!=null?int(<scope>.text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "(<scope>!=null?<labelType>(<scope>.start):null)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(<scope>!=null?<labelType>(<scope>.stop):null)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(<scope>!=null?<ASTLabelType>(<scope>.tree):null)"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
(<scope>!=null?(input.tokenStream.toStringWithRange(
input.treeAdaptor.getTokenStartIndex(<scope>.start),
input.treeAdaptor.getTokenStopIndex(<scope>.start))):null)
<else>
(<scope>!=null?input.toStringWithTokenRange(<scope>.start,<scope>.stop):null)
<endif>
>>

ruleLabelPropertyRef_st(scope,attr) ::= "(<scope>!=null?<scope>.st:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
"(<scope>!=null?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::=
"(<scope>!=null?<scope>.lien:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::=

```

```

"(<scope>!=null?<scope>.charPositionInLine:0)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::=
"(<scope>!=null?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::=
"(<scope>!=null?<scope>.tokenIndex:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::=
"(<scope>!=null?<scope>.text:null)"
lexerRuleLabelPropertyRef_int(scope,attr) ::=
"(<scope>!=null?int(<scope>.text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "<labelType>(retval.start)"
rulePropertyRef_stop(scope,attr) ::= "<labelType>(retval.stop)"
rulePropertyRef_tree(scope,attr) ::= "<ASTLabelType>(retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
input.tokenStream.toStringWithRange(
input.treeAdaptor.getTokenStartIndex(retval.start),
input.treeAdaptor.getTokenStopIndex(retval.start))
<else>
input.toStringWithTokenRange(retval.start,input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(charIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
<action>
}
<else>
<action>

```

```

<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static const <name>:BitSet = new BitSet([<words64:{it |<it>};separator=", ">]);<n>
>>

codeFileExtension() ::= ".as"

true_value() ::= "true"
false_value() ::= "false"

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ActionScript/ActionScript.stg

```

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```

/*

```

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```

*/

/** Templates for building ASTs during normal parsing.
*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/

@rule.setErrorReturnValue() ::= <<
/* ASTParser rule.setErrorReturnValue */
retval.tree = (<ASTLabelType> *)[treeAdaptor errorNode:input From:retval.start To:[input LT:-1] Exception:re];
<! System.out.println("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

// TOKEN AST STUFF

/** ID and output=AST */
tokenRef(token, label, elementIndex, terminalOptions) ::= <<
/* ASTParser tokenRef */
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>;
[treeAdaptor addChild:<label>_tree toTree:root_0];
<if(backtracking)>}<endif>
>>

/* ID! and output=AST (same as plain tokenRef) */
/* ASTParser tokenRefBang */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.tokenRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = <createNodeFromToken(...)>;
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0];
<if(backtracking)>}<endif>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser tokenRefBangAndListLabel */
<tokenRefBang(...)>

```

```

<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser tokenRefAndListLabel */
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
/* ASTParser tokenRefRuleRootAndListLabel */
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <%
/* ASTParser matchSet */
<super.matchSet(postmatchCode={<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
 [treeAdaptor addChild:<createNodeFromToken(...)> toTree:root_0 ];}, ...)>
%>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTParser matchRuleBlockSet */
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,terminalOptions, postmatchCode) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
/* ASTParser matchSetRuleRoot */

```

```

<if(label)>
<label>=(<labelType> *)[input LT:1]; /* matchSetRuleRoot */<\n>
<endif>
<super.matchSet(postmatchCode={ <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<createNodeFromToken(...)> old:root_0];}, ...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRef */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
[treeAdaptor addChild:[<label> getTree] toTree:root_0];
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefRuleRoot */
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:[<label> getTree] old:root_0];
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefAndListLabel */
<ruleRef(...)>
<listLabel(elem = {[<label> getTree]},...)>
>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefBangAndListLabel */
<ruleRefBang(...)>
<listLabel(elem = {[<label> getTree]},...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem = {[<label> getTree]},...)>
>>

```

```

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser wildcard */
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  [treeAdaptor addChild:[[treeAdaptor create:<label>] retain] toTree:root_0];
<if(backtracking)>}<endif>
>>

wildcardBang(token,label,elementIndex,terminalOptions) ::= "<super.wildcard(...)>"

wildcardRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
/* ASTParser wildcardRuleRoot */
<super.wildcard(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <label>_tree = [[treeAdaptor create:<label>] retain]
  root_0 = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_0];
<if(backtracking)>}<endif>
>>

createNodeFromToken(label,terminalOptions) ::= <<
/* ASTParser createNodeFromToken */
<if(terminalOptions.node)>
[<terminalOptions.node> new<terminalOptions.node>:<label>] <! new MethodNode(IDLabel) !>
<else>
(<ASTLabelType> *)[treeAdaptor create:<label>] retain]
<endif>
>>

// straight from java cleanup ///
ruleCleanUp() ::= <<
/* ASTParser ruleCleanUp */
<super.ruleCleanUp()>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
  retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
  [treeAdaptor setTokenBoundaries:retval.tree From:retval.start To:retval.stopToken];
<if(backtracking)>}<endif>
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ObjC/ASTParser.stg
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```

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\*/

/\*\* Template subgroup to add template rewrite output

\* If debugging, then you'll also get STDbg.stg loaded.

\*/

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
import stringtemplate3
```

```
>>
```

```
/** Add this to each rule's return value struct */
```

```
@returnScope.ruleReturnInit() ::= <<
```

```
self.st = None
```

```
>>
```

```
@returnScope.ruleReturnMembers() ::= <<
```

```
def getTemplate(self):
```

```
    return self.st
```

```
def toString(self):
```

```
    if self.st is not None:
```

```
        return self.st.toString()
```

```
    return None
```

```
__str__ = toString
```

```

>>

@genericParser.init() ::= <<
<@super.init(>
self.templateLib = stringtemplate3.StringTemplateGroup(
  '<name>Templates', lexer='angle-bracket'
)
)

>>

@genericParser.members() ::= <<
<@super.members(>
def setTemplateLib(self, templateLib):
  self.templateLib = templateLib

def getTemplateLib(self):
  return self.templateLib

>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.st})>
>>

rewriteTemplate(alts) ::= <<
# TEMPLATE REWRITE
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
  <first(alts):rewriteTemplateAltFirst(>
  <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
  <if(rewriteMode)><replaceTextInLine(><endif>

<else>
<first(alts):rewriteTemplateAltFirst(>
<rest(alts):{it | el<rewriteTemplateAlt(it)>}>
<if(rewriteMode)><replaceTextInLine(><endif>
<endif>
>>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
self.input.getTokenStream().replace(
  self.input.getTreeAdaptor().getTokenStartIndex(retval.start),
  self.input.getTreeAdaptor().getTokenStopIndex(retval.start),
  retval.st
)
)

```

```

    )
<else>
self.input.replace(
    retval.start.getTokenIndex(),
    self.input.LT(-1).getTokenIndex(),
    retval.st
)
<endif>
>>

```

```

rewriteTemplateAltFirst(alt) ::= <<
<if(alt.pred)>
if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
<\n>
<else>
# <alt.description>
retval.st = <alt.alt>
<\n>
<endif>
>>

```

```

rewriteTemplateAlt(alt) ::= <<
<if(alt.pred)>if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
<\n>
<else>se:
    # <alt.description>
    retval.st = <alt.alt>
<\n>
<endif>
>>

```

```

rewriteEmptyTemplate(alts) ::= <<
None
>>

```

```

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template after having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */

```

```

rewriteExternalTemplate(name,args) ::= <%
self.templateLib.getInstanceOf("<name>"<if(args)>, attributes={<args:{ a | "<a.name>": <a.value>}; separator="
">}<endif>)

```

```

%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
self.templateLib.getInstanceOf(<expr><if(args)>, attributes={<args:{ a | "<a.name>": <a.value>}; separator=","
">><endif>)
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
stringtemplate3.StringTemplate("<template>", group=self.templateLib<if(args)>, attributes={<args:{ a |
"<a.name>": <a.value>}; separator="," ">><endif>)
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>["<attrName>"] = <expr>
>>

/** Translate %{stringExpr} */
actionStringConstructor(stringExpr) ::= <<
stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/ST.stg  
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- \*/

/\*\* Templates for building ASTs during tree parsing.

- \*
- \* Deal with many combinations. Dimensions are:
- \* Auto build or rewrite
- \* no label, label, list label (label/no-label handled together)
- \* child, root
- \* token, set, rule, wildcard
- \*
- \* Each combination has its own template except that label/no label
- \* is combined into tokenRef, ruleRef, ...
- \*/

/\*\* Add a variable to track last element matched \*/

```
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = default(<ASTLabelType>);
<ASTLabelType> _last = default(<ASTLabelType>);
<endif>
>>
```

/\*\* What to emit when there is no rewrite rule. For auto build

- \* mode, does nothing.
- \*/
- noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.Tree = (<ASTLabelType>)\_first\_0;
if (adaptor.GetParent(retval.Tree)!=null && adaptor.IsNil(adaptor.GetParent(retval.Tree)))
retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);

```

<endif>
<if(backtracking)>}<endif>
<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
     enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = default(<ASTLabelType>);
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(root.el.rule)>
if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>.Tree;
<else>
if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1) == TokenType.Down) {
    Match(input, TokenType.Down, null); <checkRuleBacktrackFailure()>
    <children:element()>
    Match(input, TokenType.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenType.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenType.Up, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}
<else>
<super.tree(...)>
<endif>
>>

```

```

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<else>
<super.tokenRefBang(...)>
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.tokenRef(...)>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRef(...)>
<listLabelElem(elem=label,...)>
<else>

```

```

<super.tokenRefAndListLabel(...)>
<endif>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}<endif>
<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRefRuleRoot(...)>
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefRuleRootAndListLabel(...)>
<endif>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.DupTree(<label>);
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>

```

```

<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.wildcard(...)>
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}\}<endif>
<endif>
}, ...
)>
<else>
<super.matchSet(...)>
<endif>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<if(!ruleDescriptor.isSynPred)>
<matchSet(...)>
<noRewrite(...)> <! set return tree !>
<else>
<super.matchRuleBlockSet(...)>
<endif>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);

```

```

<super.matchSet(...)>
<else>
<super.matchSetBang(...)>
<endif>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(!ruleDescriptor.isSynPred)>
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>\\}<endif>
<endif>
}, ...
)>
<else>
<super.matchSetRuleRoot(...)>
<endif>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
<endif>
<else>
<super.ruleRef(...)>
<endif>
>>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
<else>
<super.ruleRefRuleRoot(...)>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefRuleRootAndListLabel(...)>
<endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
<else>
<super.ruleRefTrackAndListLabel(...)>
<endif>

```

>>

```
/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrack(...)>
<else>
<super.ruleRefRuleRootTrack(...)>
<endif>
>>
```

```
/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
<else>
<super.ruleRefRuleRootTrackAndListLabel(...)>
<endif>
>>
```

```
/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node><if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode()
<else>
stream_<token>.NextNode()
<endif>
%>
```

```
ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!ruleDescriptor.isSynPred)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
<endif>
>>
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/ASTTreeParser.stg
```

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```
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```

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```
*/
```

```
/** Template subgroup to add template rewrite output
```

```
* If debugging, then you'll also get STDbg.stg loaded.
```

```
*/
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
import org.stringtemplate.v4.*;
```

```
import java.util.HashMap;
```

```
>>
```

```
/** Add this to each rule's return value struct */
```

```
@returnScope.ruleReturnMembers() ::= <<
```

```
/* ST returnScope.ruleReturnMembers -- empty */
```

```
>>
```

```
/** Add this to each rule's return value struct */
```

```
@returnScope.ruleReturn.memvars() ::= <<
```

```
ST *st;
```

```
>>
```

```

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.properties() ::= <<
@property (retain) ST *st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.methodsDecl() ::= <<
- (ST *)getTemplate;
- (NSString *)toString;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.synthesize() ::= <<
@synthesize st;
>>

/** Add this to each rule's return value struct */
@returnScope.ruleReturn.methods() ::= <<
- (ST *)getTemplate { return st; }
- (NSString *)toString { return st==nil?nil:[st render]; }
>>

@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup];

- (void)setTemplateLib:(STGroup *)aTemplateLib
{
    self.templateLib = aTemplateLib;
}

- (STGroup *)getTemplateLib
{
    return templateLib;
}
>>

@genericParserHeaderFile.memVars() ::= <<
<@super.memVars()>
/* ST genericParserHeaderFile.memVars -- empty now */
STGroup *templateLib; /* ST -- really a part of STAttrMap */
>>

@genericParserHeaderFile.properties() ::= <<
<@super.properties()>
/* ST genericParser.properties */
@property (retain, getter=getTemplateLib, setter=setTemplateLib:) STGroup *templateLib;

```

```

>>

@genericParserHeaderFile.methodsDecl() ::= <<
<@super.methodsDecl()>
/* ST genericParser.methodsDecl */
- init;
- (STGroup *) getTemplateLib;
- (void) setTemplateLib:(STGroup *)aTemplateLib;
@end
>>

@genericParser.synthesize() ::= <<
<@super.synthesize()>
/* ST genericParserImplementation.synthesize */
@synthesize templateLib;
>>

@genericParser.methods() ::= <<
<@super.methods()>
/* ST genericParser.methods */

- (STGroup *)getTemplateLib
{
    return templateLib;
}

- (void) setTemplateLib:(STGroup *)aTemplateLib
{
    templateLib = aTemplateLib;
}

>>

@genericParser.members() ::= <<
<@super.members()>
STGroup *templateLib = [STGroup newSTGroup];

- (STGroup *) getTemplateLib
{
    return templateLib;
}

- (void) setTemplateLib:(STGroup *) templateLib
{
    this.templateLib = templateLib;
}

/** x+=rule when output=template */

```

```

ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, { [<label> getTemplate]; })>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
  <alts:rewriteTemplateAlt(); separator="else ">
  <if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
  [((TokenRewriteStream)input getTokenStream)]
  replaceFromIndex:[[input getTreeAdaptor] getTokenStartIndex:retval.start]
  ToIndex:[[input getTreeAdaptor] getTokenStopIndex:retval.start]
  Text:[retval.st render]];
<else>
  [((TokenRewriteStream)input)
  replaceFromIndex:[((Token)retval.start) getTokenIndex]
  ToIndex:[input LT:-1] getTokenIndex]
  Text:[retval.st render]];
<endif>
>>

rewriteTemplateAlt(alt) ::= <<
// <alt.description>
<if(alt.pred)>
if (<alt.pred>) {
  retval.st = <alt.alt>;
}<\n>
<else>
{
  retval.st = <alt.alt>;
}<\n>
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
nil;

```

>>

```
/** Invoke a template with a set of attribute name/value pairs.  
 * Set the value of the rule's template after having set  
 * the attributes because the rule's template might be used as  
 * an attribute to build a bigger template; you get a self-embedded  
 * template.  
 */
```

```
rewriteExternalTemplate(name,args) ::= <%  
<if(args)><args:{ a | []}><endif>  
[templateLib getInstanceOf:@"<name>"]  
<if(args)><args:{ a | add:@"<a.name>" value:<a.value>}]><endif>;  
%>
```

```
/** expr is a string expression that says what template to load */  
rewriteIndirectTemplate(expr,args) ::= <%  
<if(args)><args:{ a | []}><endif>  
[templateLib getInstanceOf:<expr>];  
<if(args)><args:{ a | add:@"<a.name>" value:<a.value>}]><endif>;  
%>
```

```
/** Invoke an inline template with a set of attribute name/value pairs */  
rewriteInlineTemplate(args, template) ::= <%  
<if(args)><args:{ a | []}><endif>  
[ST newST:templateLib template:"<template>"]  
<if(args)><args:{ a | add:@"<a.name>" <a.value>}]><endif>;  
%>
```

```
/** plain -> {foo} action */  
rewriteAction(action) ::= <<  
<action>  
>>
```

```
/** An action has %st.attrName=expr; or % {st}.attrName=expr; */  
actionSetAttribute(st,attrName,expr) ::= <<  
[(<st>) setAttribute:@"<attrName>" value:<expr>];  
>>
```

```
/** Translate % {stringExpr} */  
actionStringConstructor(stringExpr) ::= <<  
[ST newST:templateLib template:<stringExpr>];  
>>
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/ObjC/ST4ObjC.stg
```

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```

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```

```
*/
```

```
/** How to generate rules derived from left-recursive rules.
```

```
* These rely on recRuleDefArg(), recRuleAltPredicate(),
```

```
* recRuleArg(), recRuleSetResultAction(), recRuleSetReturnAction()
```

```
* templates in main language.stg
```

```
*/
```

```
group LeftRecursiveRules;
```

```
recRuleName(ruleName) ::= "<ruleName>_"
```

```
recPrimaryName(ruleName) ::= "<ruleName>_primary"
```

```
recRuleStart(ruleName, minPrec, userRetvals, userRetvalAssignments) ::= <<
```

```
<ruleName><if(userRetvals)> returns [<userRetvals>]<endif>
```

```
: <recRuleName(...)>[<minPrec>]
```

```
<if(userRetvals)>
```

```
{
```

```
  <userRetvalAssignments; separator="\n">
```

```
}
```

```
<endif>
```

```
;
```

```
>>
```

```

recRule(ruleName, precArgDef, argName, alts, setResultAction, buildAST,
        userRetvals, userRetvalAssignments) ::= <<
<recRuleName(...)>[<precArgDef>]<if(userRetvals)> returns [<userRetvals>]<endif>
: <recPrimaryName(...)>
  <if(buildAST)>
  {
    <setResultAction>
  }
  <endif>
  <if(userRetvals)>
  {
    <userRetvalAssignments; separator="\n">
  }
  <endif>
  ( options {backtrack=false;}
  : ( options {backtrack=false;}
    : <alts; separator="\n | ">
    )
  )*
;
>>

```

```

recPrimaryRule(ruleName, alts, userRetvals) ::= <<
<recPrimaryName(...)><if(userRetvals)> returns [<userRetvals>]<endif>
options {backtrack=true;}
: <alts; separator="\n | ">
;
>>

```

```

recRuleAlt(alt, pred) ::= "{<pred>}?=> <alt>"

```

```

recRuleRef(ruleName, arg) ::= "<recRuleName(...)>[<arg>]"

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/LeftRecursiveRules.stg

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```

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\*/

/\*

New style messages. This file only contains the messages in English, but no information about which file, line, or column it occurred in.

The location and message ids are taken out of the formats directory.

Kay Roepke

\*/

group en\_US;

// TOOL ERRORS

// file errors

CANNOT\_WRITE\_FILE(arg,exception,stackTrace) ::= <<

cannot write file <arg>: <exception>

<stackTrace; separator="\n">

>>

CANNOT\_CLOSE\_FILE(arg,exception,stackTrace) ::= "cannot close file <arg>: <exception>"

CANNOT\_FIND\_TOKENS\_FILE(arg) ::= "cannot find tokens file <arg>"

ERROR\_READING\_TOKENS\_FILE(arg,exception,stackTrace) ::= <<

problem reading token vocabulary file <arg>: <exception>

<stackTrace; separator="\n">

>>

DIR\_NOT\_FOUND(arg,exception,stackTrace) ::= "directory not found: <arg>"

OUTPUT\_DIR\_IS\_FILE(arg,exception,stackTrace) ::= "output directory is a file: <arg>"

CANNOT\_OPEN\_FILE(arg,exception,stackTrace) ::= "cannot find or open file: <arg><if(exception)>; reason:

<exception><endif>"

CIRCULAR\_DEPENDENCY() ::= "your grammars contain a circular dependency and cannot be sorted into a valid build order."

INTERNAL\_ERROR(arg,arg2,exception,stackTrace) ::= <<

internal error: <arg> <arg2><if(exception)>: <exception><endif>

<stackTrace; separator="\n">

```

>>
INTERNAL_WARNING(arg) ::= "internal warning: <arg>"
ERROR_CREATING_ARTIFICIAL_RULE(arg,exception,stackTrace) ::= <<
problems creating lexer rule listing all tokens: <exception>
<stackTrace; separator="\n">
>>
TOKENS_FILE_SYNTAX_ERROR(arg,arg2) ::=
"problems parsing token vocabulary file <arg> on line <arg2>"
CANNOT_GEN_DOT_FILE(arg,exception,stackTrace) ::=
"cannot write DFA DOT file <arg>: <exception>"
BAD_ACTION_AST_STRUCTURE(exception,stackTrace) ::=
"bad internal tree structure for action '<arg>': <exception>"
BAD_AST_STRUCTURE(arg,exception,stackTrace) ::= <<
bad internal tree structure '<arg>': <exception>
<stackTrace; separator="\n">
>>
FILE_AND_GRAMMAR_NAME_DIFFER(arg,arg2) ::=
"file <arg2> contains grammar <arg>; names must be identical"
FILENAME_EXTENSION_ERROR(arg) ::=
"file <arg> must end in a file extension, normally .g"

// code gen errors
MISSING_CODE_GEN_TEMPLATES(arg) ::=
"cannot find code generation templates <arg>.stg"
MISSING_CYCLIC_DFA_CODE_GEN_TEMPLATES() ::=
"cannot find code generation cyclic DFA templates for language <arg>"
CODE_GEN_TEMPLATES_INCOMPLETE(arg) ::=
"at least one code generation template missing for language <arg>"
CANNOT_CREATE_TARGET_GENERATOR(arg,exception,stackTrace) ::=
"cannot create target <arg> code generator: <exception>"
STRING_TEMPLATE_ERROR(arg,exception,stackTrace) ::=
"template error: <arg>"
CANNOT_COMPUTE_SAMPLE_INPUT_SEQ() ::=
"cannot generate a sample input sequence from lookahead DFA"

// grammar interpretation errors
/*
NO_VIABLE_DFA_ALT(arg,arg2) ::=
"no viable transition from state <arg> on <arg2> while interpreting DFA"
*/

// GRAMMAR ERRORS
SYNTAX_ERROR(arg) ::= "syntax error: <arg>"
RULE_REDEFINITION(arg) ::=
"rule <arg> redefinition"
LEXER_RULES_NOT_ALLOWED(arg) ::=
"lexer rule <arg> not allowed in parser"
PARSER_RULES_NOT_ALLOWED(arg) ::=

```

"parser rule <arg> not allowed in lexer"

CANNOT\_FIND\_ATTRIBUTE\_NAME\_IN\_DECL(arg) ::= "cannot find an attribute name in attribute declaration"

NO\_TOKEN\_DEFINITION(arg) ::= "no lexer rule corresponding to token: <arg>"

UNDEFINED\_RULE\_REF(arg) ::= "reference to undefined rule: <arg>"

LITERAL\_NOT\_ASSOCIATED\_WITH\_LEXER\_RULE(arg) ::= "literal has no associated lexer rule: <arg>"

CANNOT\_ALIAS\_TOKENS\_IN\_LEXER(arg) ::= "literals are illegal in lexer tokens{ } section: <arg>"

ATTRIBUTE\_REF\_NOT\_IN\_RULE(arg,arg2) ::= "reference to attribute outside of a rule: <arg><if(arg2)>.<arg2><endif>"

UNKNOWN\_ATTRIBUTE\_IN\_SCOPE(arg,arg2) ::= "unknown attribute for <arg>: <arg2>"

UNKNOWN\_RULE\_ATTRIBUTE(arg,arg2) ::= "unknown attribute for rule <arg>: <arg2>"

UNKNOWN\_SIMPLE\_ATTRIBUTE(arg,args2) ::= "attribute is not a token, parameter, or return value: <arg>"

ISOLATED\_RULE\_SCOPE(arg) ::= "missing attribute access on rule scope: <arg>"

INVALID\_RULE\_PARAMETER\_REF(arg,arg2) ::= "cannot access rule <arg>'s parameter: <arg2>"

INVALID\_RULE\_SCOPE\_ATTRIBUTE\_REF(arg,arg2) ::= "cannot access rule <arg>'s dynamically-scoped attribute: <arg2>"

SYMBOL\_CONFLICTS\_WITH\_GLOBAL\_SCOPE(arg) ::= "symbol <arg> conflicts with global dynamic scope with same name"

WRITE\_TO\_READONLY\_ATTR(arg,arg2,arg3) ::= "cannot write to read only attribute: \$<arg><if(arg2)>.<arg2><endif>"

LABEL\_CONFLICTS\_WITH\_RULE(arg) ::= "label <arg> conflicts with rule with same name"

LABEL\_CONFLICTS\_WITH\_TOKEN(arg) ::= "label <arg> conflicts with token with same name"

LABEL\_CONFLICTS\_WITH\_RULE\_SCOPE\_ATTRIBUTE(arg,arg2) ::= "label <arg> conflicts with rule <arg2>'s dynamically-scoped attribute with same name"

LABEL\_CONFLICTS\_WITH\_RULE\_ARG\_RETVAL(arg,arg2) ::= "label <arg> conflicts with rule <arg2>'s return value or parameter with same name"

ATTRIBUTE\_CONFLICTS\_WITH\_RULE(arg,arg2) ::= "rule <arg2>'s dynamically-scoped attribute <arg> conflicts with the rule name"

ATTRIBUTE\_CONFLICTS\_WITH\_RULE\_ARG\_RETVAL(arg,arg2) ::= "rule <arg2>'s dynamically-scoped attribute <arg> conflicts with <arg2>'s return value or parameter with same name"

LABEL\_TYPE\_CONFLICT(arg,arg2) ::= "label <arg> type mismatch with previous definition: <arg2>"

ARG\_RETVAL\_CONFLICT(arg,arg2) ::= "rule <arg2>'s argument <arg> conflicts a return value with same name"

NONUNIQUE\_REF(arg) ::= "<arg> is a non-unique reference"

FORWARD\_ELEMENT\_REF(arg) ::=  
 "illegal forward reference: <arg>"

MISSING\_RULE\_ARGS(arg) ::=  
 "missing parameter(s) on rule reference: <arg>"

RULE\_HAS\_NO\_ARGS(arg) ::=  
 "rule <arg> has no defined parameters"

ARGS\_ON\_TOKEN\_REF(arg) ::=  
 "token reference <arg> may not have parameters"

ILLEGAL\_OPTION(arg) ::=  
 "illegal option <arg>"

LIST\_LABEL\_INVALID\_UNLESS\_RETVAL\_STRUCT(arg) ::=  
 "rule '+' list labels are not allowed w/o output option: <arg>"

UNDEFINED\_TOKEN\_REF\_IN\_REWRITE(arg) ::=  
 "reference to undefined token in rewrite rule: <arg>"

REWRITE\_ELEMENT\_NOT\_PRESENT\_ON\_LHS(arg) ::=  
 "reference to rewrite element <arg> without reference on left of ->"

UNDEFINED\_LABEL\_REF\_IN\_REWRITE(arg) ::=  
 "reference to undefined label in rewrite rule: \$<arg>"

NO\_GRAMMAR\_START\_RULE (arg) ::=  
 "grammar <arg>: no start rule (no rule can obviously be followed by EOF)"

EMPTY\_COMPLEMENT(arg) ::= <<  
 <if(arg)>  
 set complement ~<arg> is empty  
 <else>  
 set complement is empty  
 <endif>  
 >>

UNKNOWN\_DYNAMIC\_SCOPE(arg) ::=  
 "unknown dynamic scope: <arg>"

UNKNOWN\_DYNAMIC\_SCOPE\_ATTRIBUTE(arg,arg2) ::=  
 "unknown dynamically-scoped attribute for scope <arg>: <arg2>"

RULE\_REF\_AMBIG\_WITH\_RULE\_IN\_ALT(arg) ::=  
 "reference \$<arg> is ambiguous; rule <arg> is enclosing rule and referenced in the production (assuming enclosing rule)"

ISOLATED\_RULE\_ATTRIBUTE(arg) ::=  
 "reference to locally-defined rule scope attribute without rule name: <arg>"

INVALID\_ACTION\_SCOPE(arg,arg2) ::=  
 "unknown or invalid action scope for <arg2> grammar: <arg>"

ACTION\_REDEFINITION(arg) ::=  
 "redefinition of <arg> action"

DOUBLE\_QUOTES\_ILLEGAL(arg) ::=  
 "string literals must use single quotes (such as '\begin\'): <arg>"

INVALID\_TEMPLATE\_ACTION(arg) ::=  
 "invalid StringTemplate % shorthand syntax: '<arg>'"

MISSING\_ATTRIBUTE\_NAME() ::=  
 "missing attribute name on \$ reference"

ARG\_INIT\_VALUES\_ILLEGAL(arg) ::=  
 "rule parameters may not have init values: <arg>"

```

REWRITE_OR_OP_WITH_NO_OUTPUT_OPTION(arg) ::=
  "<if(arg)>rule <arg> uses <endif>rewrite syntax or operator with no output option; setting output=AST"
AST_OP_WITH_NON_AST_OUTPUT_OPTION(arg) ::=
  "AST operator with non-AST output option: <arg>"
NO_RULES(arg) ::= "grammar file <arg> has no rules"
MISSING_AST_TYPE_IN_TREE_GRAMMAR(arg) ::=
  "tree grammar <arg> has no ASTLabelType option"
REWRITE_FOR_MULTI_ELEMENT_ALT(arg) ::=
  "with rewrite=true, alt <arg> not simple node or obvious tree element; text attribute for rule not guaranteed to be
correct"
RULE_INVALID_SET(arg) ::=
  "Cannot complement rule <arg>; not a simple set or element"
HETERO_ILLEGAL_IN_REWRITE_ALT(arg) ::=
  "alts with rewrites can't use heterogeneous types left of ->"
NO_SUCH_GRAMMAR_SCOPE(arg,arg2) ::=
  "reference to undefined grammar in rule reference: <arg>.<arg2>"
NO_SUCH_RULE_IN_SCOPE(arg,arg2) ::=
  "rule <arg2> is not defined in grammar <arg>"
TOKEN_ALIAS_CONFLICT(arg,arg2) ::=
  "cannot alias <arg>; string already assigned to <arg2>"
TOKEN_ALIAS_REASSIGNMENT(arg,arg2) ::=
  "cannot alias <arg>; token name already assigned to <arg2>"
TOKEN_VOCAB_IN_DELEGATE(arg,arg2) ::=
  "tokenVocab option ignored in imported grammar <arg>"
INVALID_IMPORT(arg,arg2) ::=
  "<arg.grammarTypeString> grammar <arg.name> cannot import <arg2.grammarTypeString> grammar
<arg2.name>"
IMPORTED_TOKENS_RULE_EMPTY(arg,arg2) ::=
  "no lexer rules contributed to <arg> from imported grammar <arg2>"
IMPORT_NAME_CLASH(arg,arg2) ::=
  "combined grammar <arg.name> and imported <arg2.grammarTypeString> grammar <arg2.name> both generate
<arg2.recognizerName>; import ignored"
AST_OP_IN_ALT_WITH_REWRITE(arg,arg2) ::=
  "rule <arg> alt <arg2> uses rewrite syntax and also an AST operator"
WILDCARD_AS_ROOT(arg) ::= "Wildcard invalid as root; wildcard can itself be a tree"
CONFLICTING_OPTION_IN_TREE_FILTER(arg,arg2) ::= "option <arg>=<arg2> conflicts with tree grammar
filter mode"
ILLEGAL_OPTION_VALUE(arg, arg2) ::= "value '<arg2>' invalid for option <arg>"
ALL_OPS_NEED_SAME_ASSOC(arg) ::= "all operators of alt <alt> of left-recursive rule must have same
associativity"
RANGE_OP_ILLEGAL(arg) ::= "the .. range operator isn't allowed in parser rules"

// GRAMMAR WARNINGS

GRAMMAR_NONDETERMINISM(input,conflictingAlts,paths,disabled,hasPredicateBlockedByAction) ::=
<<
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives:

```

<paths:{ it | alt <it.alt> via NFA path <it.states; separator=","><\n>}>

<else>

Decision can match input such as "<input>" using multiple alternatives: <conflictingAlts; separator=",">

<endif>

<if(disabled)><\n>As a result, alternative(s) <disabled; separator=","> were disabled for that

input<endif><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by

actions.<endif>

>>

DANGLING\_STATE(danglingAlts,input) ::= <<

the decision cannot distinguish between alternative(s) <danglingAlts; separator=","> for input such as "<input>"

>>

UNREACHABLE\_ALTS(alts) ::= <<

The following alternatives can never be matched: <alts; separator=","><\n>

>>

INSUFFICIENT\_PREDICATES(upon,altToLocations,hasPredicateBlockedByAction) ::= <<

Input such as "<upon>" is insufficiently covered with predicates at locations: <altToLocations.keys:{alt|alt <alt>:

<altToLocations.(alt):{loc| line <loc.line>:<loc.column> at <loc.text>}; separator=",">; separator=",

"><if(hasPredicateBlockedByAction)><\n>Semantic predicates were present but were hidden by actions.<endif>

>>

DUPLICATE\_SET\_ENTRY(arg) ::=

"duplicate token type <arg> when collapsing subrule into set"

ANALYSIS\_ABORTED(enclosingRule) ::= <<

ANTLR could not analyze this decision in rule <enclosingRule>; often this is because of recursive rule references visible from the left edge of alternatives. ANTLR will re-analyze the decision with a fixed lookahead of k=1.

Consider using "options {k=1;}" for that decision and possibly adding a syntactic predicate.

>>

RECURSION\_OVERFLOW(alt,input,targetRules,callSiteStates) ::= <<

Alternative <alt>: after matching input such as <input> decision cannot predict what comes next due to recursion

overflow <targetRules,callSiteStates:{t,c|to <t> from <c:{s|<s.enclosingRule.name>};separator=",">; separator=" and ">

>>

LEFT\_RECURSION(targetRules,alt,callSiteStates) ::= <<

Alternative <alt> discovers infinite left-recursion <targetRules,callSiteStates:{t,c|to <t> from

<c:{s|<s.enclosingRule>};separator=",">; separator=" and ">

>>

UNREACHABLE\_TOKENS(tokens) ::= <<

The following token definitions can never be matched because prior tokens match the same input: <tokens;

separator=",">

>>

```

TOKEN_NONDETERMINISM(input,conflictingTokens,paths,disabled,hasPredicateBlockedByAction) ::=
<<
<if(paths)>
Decision can match input such as "<input>" using multiple alternatives:
<paths:{ it | alt <it.alt> via NFA path <it.states; separator=","><n>}>
<else>
Multiple token rules can match input such as "<input>": <conflictingTokens; separator=","><n>
<endif>
<if(disabled)><n>As a result, token(s) <disabled; separator=","> were disabled for that
input<endif><if(hasPredicateBlockedByAction)><n>Semantic predicates were present but were hidden by
actions.<endif>
>>

```

```

LEFT_RECURSION_CYCLES(listOfCycles) ::= <<
The following sets of rules are mutually left-recursive <listOfCycles:{c| [<c:{r|<r.name>}]; separator=",">];
separator=" and ">
>>

```

```

NONREGULAR_DECISION(ruleName,alts) ::= <<
[fatal] rule <ruleName> has non-LL(*) decision due to recursive rule invocations reachable from alts <alts;
separator=",">. Resolve by left-factoring or using syntactic predicates or using backtrack=true option.
>>

```

```

/* 110n for message levels */
warning() ::= "warning"
error() ::= "error"

```

```

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/templates/messages/languages/en.stg
No license file was found, but licenses were detected in source scan.

```

```

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\*/

/\*\* ANTLR's code generator.

\*

\* Generate recognizers derived from grammars. Language independence  
\* achieved through the use of STGroup objects. All output  
\* strings are completely encapsulated in the group files such as Java.stg.  
\* Some computations are done that are unused by a particular language.  
\* This generator just computes and sets the values into the templates;  
\* the templates are free to use or not use the information.

\*

\* To make a new code generation target, define X.stg for language X  
\* by copying from existing Y.stg most closely related to your language;  
\* e.g., to do CSharp.stg copy Java.stg. The template group file has a  
\* bunch of templates that are needed by the code generator. You can add  
\* a new target w/o even recompiling ANTLR itself. The language=X option  
\* in a grammar file dictates which templates get loaded/used.

\*

\* Some language like C need both parser files and header files. Java needs  
\* to have a separate file for the cyclic DFA as ANTLR generates bytecodes  
\* directly (which cannot be in the generated parser Java file). To facilitate  
\* this,

\*

\* cyclic can be in same file, but header, output must be searpate. recognizer  
\* is in outptufile.

\*/

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CodeGenerator.java

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- \*/

```
@outputFile.imports() ::= <<
<@super.imports(>
```

```
<if(!TREE_PARSER)>
<! tree parser would already have imported !>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
<endif>
>>
```

```
@genericParser.members() ::= <<
<@super.members(>
<parserMembers(>
>>
```

```
parserCtorBody() ::= <%
<super.parserCtorBody(><\n>
TreeAdaptor =
<if(actions.(actionScope).treeAdaptorInitializer)>
<actions.(actionScope).treeAdaptorInitializer>
<else>
new <actions.(actionScope).treeAdaptorType; null="CommonTreeAdaptor">()
<end>
;
%>
```

```

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
private <treeAdaptorType()> adaptor;

public <treeAdaptorType()> TreeAdaptor
{
get
{
return adaptor;
}

set
{
this.adaptor = value;
<grammar.directDelegates: {g|<g:delegateName()>.TreeAdaptor = this.adaptor;}>
}
}
>>

treeAdaptorType() ::= <<
<actions.(actionScope).treeAdaptorType; null="ITreeAdaptor">
>>

ruleReturnBaseType() ::= <%
Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<ASTLabelType>, <labelType>>
%>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = default(<ASTLabelType>);<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it|<ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}; separator="\n">
<ruleDescriptor.tokenListLabels: {it|<ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);};
separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {it|RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");};
separator="\n">
>>

```

```

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)adaptor.Nil();
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
 * to the tracking list stream_ID for use in the rewrite.
 */
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

```

```

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
<\n>{
// AST REWRITE
// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <referencedWildcardLabels,referencedWildcardListLabels; separator=", ">
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {
<endif>
<prevRuleRootRef(>).Tree = root_0;
<rewriteCodeLabels(>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER&&rewriteMode)>

```

```

<prevRuleRootRef(>.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
if (<prevRuleRootRef(>.Tree != null)
    input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
        adaptor.GetChildIndex(_last), retval.Tree);
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER||!rewriteMode)>
<prevRuleRootRef(>.Tree = root_0;
<endif>
<if(backtracking)>
}
<endif>
}

>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
    :{it|RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
    separator="\n"
>
<referencedTokenListLabels
    :{it|RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
    separator="\n"
>
<referencedWildcardLabels
    :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
    separator="\n"
>
<referencedWildcardListLabels
    :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>)};
    separator="\n"
>
<referencedRuleLabels
    :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.Tree:null)};
    separator="\n"
>
<referencedRuleListLabels
    :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it> ",list_<it>)};
    separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
    * list rather shallow like other blocks.

```

```

*/
rewriteOptionalBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
if (<referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||">)
{
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();<\n>}>
>>

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
  <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if (!(<referencedElements:{el | stream_<el>.HasNext}; separator="||">))
{
  throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
  <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

rewriteAlt(a) ::= <<
// <a.description>

```

```

<if(a.pred)>
if (<a.pred>)
{
<a.alt>
}
<else>
{
<a.alt>
}
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <%
<@pregen()>
DebugLocation(<e.line>, <e.pos>);<\n>
<e.el>
%>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

```

```

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<

```

```

root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node>(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)
<endif>
%>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.NextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=", ">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
%>

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/CSharp2/AST.stg
```

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

```
/*
```

```
[The "BSD license"]
```

```
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```

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```
*/
```

```
/** Templates for building ASTs during tree parsing.
```

```
*
```

```
* Deal with many combinations. Dimensions are:
```

```
* Auto build or rewrite
```

```
* no label, label, list label (label/no-label handled together)
```

```
* child, root
```

```
* token, set, rule, wildcard
```

```
*
```

```
* Each combination has its own template except that label/no label
```

```
* is combined into tokenRef, ruleRef, ...
```

```
*/
```

```
/** Add a variable to track last element matched */
```

```
ruleDeclarations() ::= <<
```

```
<super.ruleDeclarations()>
```

```

var _first_0:<ASTLabelType> = null;
var _last:<ASTLabelType> = null;<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = <ASTLabelType>(_first_0);
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
    retval.tree = <ASTLabelType>(adaptor.getParent(retval.tree));
<endif>
<if(backtracking)>}<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
_last = <ASTLabelType>(input.LT(1));
{
var _save_last_<treeLevel>:<ASTLabelType> = _last;
var _first_<treeLevel>:<ASTLabelType> = null;
<if(!rewriteMode)>
var root_<treeLevel>:<ASTLabelType> = <ASTLabelType>(adaptor.nil());
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>.tree;
<else>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( input.LA(1)==TokenConstants.DOWN ) {
    matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
    <children:element()>
    matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
}
<else>
matchStream(input, TokenConstants.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>

```

```

matchStream(input, TokenConstants.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>( <label> );
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.tokenRef(...)>

```

```

<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>( <label> );
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>( <label> );
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}\}<endif>
<endif>

```

```

}, ...
)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
<noRewrite(...)> <! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>( <label> );
<else>
<label>_tree = <ASTLabelType>(adaptor.dupNode(<label>));
<endif><\n>
root_<treeLevel> = <ASTLabelType>(adaptor.becomeRoot(<label>_tree, root_<treeLevel>));
<if(backtracking)>}<endif>
<endif>
}, ...
)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
_last = <ASTLabelType>(input.LT(1));
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.tree);
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.tree})>

```

```

>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRef(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
  <ASTLabelType>(adaptor.becomeRoot(<label>.tree, root_<treeLevel>));
  <endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  <ruleRefRuleRoot(...)>
  <listLabel(label, {<label>.tree})>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = <ASTLabelType>(input.LT(1));
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
  <if(terminalOptions.node)>
  new <terminalOptions.node>(stream_<token>.nextNode())

```

```

<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = <ASTLabelType>(adaptor.rulePostProcessing(root_0));
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ActionScript/ASTTreeParser.stg
No license file was found, but licenses were detected in source scan.

```

```

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```
*/
```

group Delphi;

```
csharpTypeInitMap ::= [  
  "int": "0",  
  "uint": "0",  
  "long": "0",  
  "ulong": "0",  
  "float": "0.0",  
  "double": "0.0",  
  "bool": "False",  
  "byte": "0",  
  "sbyte": "0",  
  "short": "0",  
  "ushort": "0",  
  "char": "#0",  
  "string": "",  
  "String": "",  
  default: "nil" // anything other than an atomic type  
]  
  
/** The overall file structure of a recognizer; stores methods for rules  
 * and cyclic DFAs plus support code.  
 * LEXER (Boolean): should we generate lexer code?  
 * PARSER (Boolean): should we generate parser code?  
 * TREE_PARSER (Boolean): should we generate tree parser code?  
 * actionScope (String): 'lexer', 'parser', 'tree_parser' or custom scope  
 * actions (HashMap):  
 * docComment (String): document comment  
 * recognizer (Object): recognizer class generator  
 * name (String): name of grammar  
 * tokens (HashMap<name: String, type: Integer>):  
 * tokenNames:  
 * rules:  
 * cyclicDFAs:  
 * bitsets:  
 * buildTemplate (Boolean): should we generate a string template?  
 * buildAST (Boolean): should we generate an AST?  
 * rewriteMode (Boolean): are we rewriting nodes?  
 * profile (Boolean):  
 * backtracking (Boolean): backtracking mode?  
 * synpreds (): syntactic predicates  
 * memoize (Boolean): should we memoize?  
 * numRules (Integer): number of rules  
 * fileName (String): fully qualified name of original .g file  
 * ANTLRVersion (String): ANTLR version in Major.Minor.Build format  
 * generatedTimestamp (String): date/time when the file is generated  
 * trace (Boolean): should we trace input/output?  
 * scopes:
```

```

* superClass (String): name of base class, or empty string
* literals:
*/
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,
    docComment, recognizer,
    name, tokens, tokenNames, rules, cyclicDFAs,
    bitsets, buildTemplate, buildAST, rewriteMode, profile,
    backtracking, synpreds, memoize, numRules,
    fileName, ANTLRVersion, generatedTimestamp, trace,
    scopes, superClass, literals) ::=
<<
unit <name>;

{$HINTS OFF}

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<actions.(actionScope).header>

interface

<@imports>
uses<\n>
<@end>
<actions.(actionScope).usesInterface>
<if(TREE_PARSER)>
    Antlr.Runtime.Tree,<\n>
<endif>
    Antlr.Runtime,
    Antlr.Runtime.Collections,
    Antlr.Runtime.Tools;

<docComment>
<recognizer>
>>

/** Generates source code for the lexer class
* grammar (Grammar object)
*/
lexer(grammar, name, tokens, scopes, rules, numRules, labelType="Token",
    filterMode, superClass="Lexer") ::= <<
type
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
    strict private

```

```

FCnt: array [0..<grammar.numberofDecisions>] of Byte;
FLA: array [0..<grammar.numberofDecisions>, 0..255] of Integer;
FException: ERecognitionException;
procedure InitializeCyclicDFAs;
<cyclicDFAs:cyclicDFADeclaration()>
public
  const
    <tokens:{<it.name> = <it.type>;}; separator="\n">
    <scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
strict private
  <actions.(actionScope).memberDeclarations>
public
  // delegates
  <grammar.delegates: {g|<g.delegateName(): I<superClass>; {<g.recognizerName>}}; separator="\n">
public
  // delegators
  <grammar.delegators: {g|<g.delegateName(): Pointer; {<g.recognizerName>}}; separator="\n">
  <last(grammar.delegators):{g|gParent: Pointer; {<g.recognizerName>}}>
protected
  { IBaseRecognizer }
  function GetGrammarFileName: String; override;
<if(filterMode)>
  function AlreadyParsedRule(const Input: IIntStream;
    const RuleIndex: Integer): Boolean; override;
  procedure Memoize(const Input: IIntStream; const RuleIndex,
    RuleStartIndex: Integer); override;
protected
  { ILexer }
  function NextToken: IToken; override;<\n>
<endif>
protected
  { ILexer }
  procedure DoTokens; override;
public
  constructor Create; overload;
  constructor Create(const AInput: ICharStream<grammar.delegators:{g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}>); overload;
  constructor Create(const AInput: ICharStream; const AState: IRecognizerSharedState<grammar.delegators:{g};
const A<g.delegateName(): IBaseRecognizer{<g.recognizerName>}>); overload;

  <rules: {r | <if(!r.ruleDescriptor.isSynPred)><lexerRuleDeclaration(r)><endif>}>
  <synpreds: {p | <lexerSynpredDeclaration(p)>}; separator="\n">
end;

implementation

uses
  <grammar.delegates: {g|<g.recognizerName>;}; separator="\n">

```

```

<grammar.delegators: {g|<g.recognizerName>,}; separator="\n">
<actions.(actionScope).usesImplementation>
SysUtils,
StrUtils,
Math;

{ T<grammar.recognizerName> }

constructor T<grammar.recognizerName>.Create;
begin
  InitializeCyclicDFAs;
end;

constructor T<grammar.recognizerName>.Create(const AInput: ICharStream<grammar.delegators: {g}; const
A<g:delegateName(): IBaseRecognizer{<g.recognizerName>} }>);
begin
  Create(AInput, nil<grammar.delegators: {g}, A<g:delegateName()>}>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: ICharStream; const AState:
IRecognizerSharedState<grammar.delegators: {g}; const A<g:delegateName():
IBaseRecognizer{<g.recognizerName>} }>);
begin
  inherited Create(AInput, AState);
  InitializeCyclicDFAs; { TODO: Necessary in Delphi??? Not removed yet. }
  <if(memoize)>
  <if(grammar.grammarIsRoot)>
  State.RuleMemoCount := <numRules>+1;<\n> <! index from 1..n !>
  <endif>
  <endif>
  <grammar.directDelegates:
  {g|<g:delegateName()> := T<g.recognizerName>.Create(AInput, State<trunc(g.delegators): {p|,
<p:delegateName()>}>, Self);}; separator="\n">
  <grammar.delegators:
  {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">
  <last(grammar.delegators): {g|gParent := Pointer(A<g:delegateName()>);}>
  <actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>
function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
  Result := '<fileName>';
end;

<if(filterMode)>
<filteringNextToken()>
<endif>

```

```

<rules; separator="\n\n">
<synpreds:{p | <lexerSynpred(p)>}>

procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
  <cyclicDFAs:{ dfa | FDFA<dfa.decisionNumber> :=
TDFA<dfa.decisionNumber>.Create(Self<@debugAddition()>); separator="\n">
  <cyclicDFAs:{ dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}; separator="\n">
end;

<cyclicDFAs:cyclicDFA(>> <! dump tables for all DFA !>
end.>>

lexerRuleDeclaration(rule) ::= <<
procedure m<rule.ruleName>(<rule.ruleDescriptor.parameterScope:parameterScope(scope=rule)>);<\n>
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 *
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
function T<grammar.recognizerName>.NextToken: IToken;
var
  M: Integer;
begin
  while (True) do
  begin
    if (Input.LA(1) = Integer(cscEOF)) then
      Exit(TToken.EOF_TOKEN);

    State.Token := nil;
    State.Channel := TToken.DEFAULT_CHANNEL;
    State.TokenStartCharIndex := Input.Index;
    State.TokenStartCharPositionInLine := Input.CharPositionInLine;
    State.TokenStartLine := Input.Line;
    State.Text := "";
    try
      M := Input.Mark();
      State.Backtracking := 1; <! means we won't throw slow exception !>
      State.Failed := False;
      mTokens();
      State.Backtracking := 0;
    <!

```

```

mTokens backtracks with synpred at backtracking==2
    and we set the synpredgate to allow actions at level 1.
!>
if (State.Failed) then
begin
    Input.Rewind(M);
    Input.Consume; <! // advance one char and try again !>
end
else
begin
    Emit;
    Exit(State.Token);
end;
except
on RE: ERecognitionException do
begin
    // shouldn't happen in backtracking mode, but...
    ReportError(RE);
    Recover(RE);
end;
end;
end;
end;

function T<grammar.recognizerName>.AlreadyParsedRule(const Input: IIntStream;
const RuleIndex: Integer): Boolean;
begin
if (State.Backtracking > 1) then
    Result := inherited AlreadyParsedRule(Input, RuleIndex)
else
    Result := False;
end;

procedure T<grammar.recognizerName>.Memoize(const Input: IIntStream; const RuleIndex,
RuleStartIndex: Integer);
begin
if (State.Backtracking > 1) then
    inherited Memoize(Input, RuleIndex, RuleStartIndex);
end;

>>

filteringActionGate() ::= "(State.Backtracking = 1)"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, inputStreamType, superClass, filterMode,
    ASTLabelType="ANTLRInterface", labelType, members, rewriteElementType) ::= <<

```

```

type
<rules: {r | <genericParserRuleReturnType(rule=r, ruleDescriptor=r.ruleDescriptor)>>
I<grammar.recognizerName> = interface(I<@superClassName><superClass><@end>)
  <rules: {r | <genericParserRuleInterface(rule=r, ruleDescriptor=r.ruleDescriptor)>>
end;

T<grammar.recognizerName> = class(T<@superClassName><superClass><@end>,
I<grammar.recognizerName>)
<if(grammar.grammarIsRoot)>
public
  const
    TOKEN_NAMES: array [0..<length(tokenNames)>+3] of String = (
      '\<invalid>',
      '\<EOR>',
      '\<DOWN>',
      '\<UP>',
      <tokenNames; separator=",\n">);<n>
<endif>
public
  const
    <tokens: {<it.name> = <it.type>;}; separator="\n">
public
  // delegates
  <grammar.delegates: {g|<g.delegateName(): I<superClass>; {<g.recognizerName>}}; separator="\n">
public
  // delegators
  <grammar.delegators: {g|<g.delegateName(): Pointer; {<g.recognizerName>}}; separator="\n">
  <last(grammar.delegators): {g|gParent: Pointer; {<g.recognizerName>}}>

  <scopes: {<if(it.isDynamicGlobalScope)><globalAttributeScopeDeclaration(scope=it)><endif>}>
<@members>
  <! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
public
  constructor Create(const AInput: <inputStreamType><grammar.delegators: {g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}>); overload;
  constructor Create(const AInput: <inputStreamType>; const AState:
IRecognizerSharedState<grammar.delegators: {g}; const A<g.delegateName():
IBaseRecognizer{<g.recognizerName>}>); overload;
<@end>
protected
  { IBaseRecognizer }
  function GetTokenNames: TStringArray; override;
  function GetGrammarFileName: String; override;
strict private
  <actions.(actionScope).memberDeclarations>
  <rules: {r | <genericParserRuleDeclaration(rule=r, ruleDescriptor=r.ruleDescriptor)>>

  <! generate rule/method definitions for imported rules so they

```

```

appear to be defined in this recognizer. !>
// Delegated rules
<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleDeclaration(ruleDescriptor)>>

<synpreds:{p | <synpredDeclaration(p)>}; separator="\n">
<cyclicDFAs:cyclicDFADeclaration()>
strict private
    FException: ERecognitionException;
    FLA: array [0..<grammar.numberOfDecisions>, 0..255] of Integer;
    FCnt: array [0..<grammar.numberOfDecisions>] of Byte;
    procedure InitializeCyclicDFAs;
<if(bitsets)>
public
    class var
        <bitsets:bitsetDecl(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>})>
public
    class procedure InitializeBitsets; static;<\n>
<endif>
end;

implementation

uses
    <grammar.delegates: {g|<g.recognizerName>,}; separator="\n">
    <grammar.delegators: {g|<g.recognizerName>,}; separator="\n">
    <actions.(actionScope).usesImplementation>
    SysUtils,
    StrUtils,
    Math;

{ T<grammar.recognizerName> }

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType><grammar.delegators:{g|; const
A<g:delegateName(): IBaseRecognizer{<g.recognizerName>}}>);
begin
    Create(AInput, TRecognizerSharedState.Create<grammar.delegators:{g|, A<g:delegateName()>}>);
end;

constructor T<grammar.recognizerName>.Create(const AInput: <inputStreamType>;
const AState: IRecognizerSharedState<grammar.delegators:{g|; const A<g:delegateName():
IBaseRecognizer{<g.recognizerName>}}>);
begin
    inherited Create(AInput, AState);
<@membersConstructor>
<@end>
<parserCtorBody()>
<grammar.directDelegates:{g|<g:delegateName()> := T<g.recognizerName>.Create(Input,
State<trunc(g.delegators):{p|, <p:delegateName()>}>, Self);}; separator="\n">

```

```

<grammar.indirectDelegates:{g | <g:delegateName()> := <g.delegator:delegateName()>.<g:delegateName()>;}
separator="\n">
<last(grammar.delegators){glgParent := Pointer(A<g:delegateName()>);}>
<rules: {r | <ruleAttributeScopeInit(scope=r.ruleDescriptor.ruleScope)>}>
<scopes:{<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.(actionScope).memberInitializations>
end;
<actions.(actionScope).memberImplementations>

<grammar.delegatedRules:{ruleDescriptor| <delegatedRuleImplementation(ruleDescriptor)>}; separator="\n">
procedure T<grammar.recognizerName>.InitializeCyclicDFAs;
begin
<cyclicDFAs:{dfa | FDFA<dfa.decisionNumber> := TDFA<dfa.decisionNumber>.Create(Self);}; separator="\n">
<cyclicDFAs:{dfa | <if(dfa.specialStateSTs)>FDFA<dfa.decisionNumber>.SpecialStateTransitionHandler :=
DFA<dfa.decisionNumber>_SpecialStateTransition;<endif>}}; separator="\n">
end;

<if(bitsets)>
class procedure T<grammar.recognizerName>.InitializeBitsets;
begin
<bitsets:bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>
end;
<endif>

<@membersImplementation>
<@end>

function T<grammar.recognizerName>.GetTokenNames: TStringArray;
var
I: Integer;
begin
SetLength(Result,Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES));
for I := 0 to Length(T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES) - 1 do
Result[I] := T<grammar.composite.rootGrammar.recognizerName>.TOKEN_NAMES[I];
end;

function T<grammar.recognizerName>.GetGrammarFileName: String;
begin
Result := '<fileName>';
end;

<rules; separator="\n\n">
<synpreds:{p | <synpred(p)>}>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
<if(bitsets)>
initialization
T<grammar.recognizerName>.InitializeBitsets;<\n>

```

```

<endif>
end.>>

delegatedRuleDeclaration(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>):
<returnType()>;<\n>
<else>
procedure <ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);<\n>
<endif>
<endif>
>>

delegatedRuleImplementation(ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
): I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
): <returnType()>;<\n>
<else>
procedure
T<grammar.recognizerName>.<ruleDescriptor.name>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>
);<\n>
<endif>
<endif>
begin
<if(ruleDescriptor.hasReturnValue)>Result :=<endif>
T<ruleDescriptor.grammar.recognizerName>(<ruleDescriptor.grammar:delegateName>).Implementor).<ruleDescriptor.name>(<ruleDescriptor.parameterScope.attributes: { a|<a.name> }; separator=" , ">);
end;
>>

parserCtorBody() ::= <<
InitializeCyclicDFAs;
<if(memoize)>
<if(grammar.grammarIsRoot)>
State.RuleMemoCount := <length(grammar.allImportedRules)>+1;<\n> <! index from 1..n !>
<endif>
<endif>

```

```

<grammar.delegators: {g|<g:delegateName()> := Pointer(A<g:delegateName()>);}; separator="\n">
>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets, ASTLabelType, superClass="Parser",
labelType="Token", members={<actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules, numRules, bitsets,
labelType={<ASTLabelType>}, ASTLabelType="object", superClass="TreeParser",
members={<actions.treeparser.members>}, filterMode) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start "<ruleName>"
procedure
T<grammar.recognizerName>.<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope(scope=it)>)
;
var
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleLabelDefVars()>
begin
<ruleLabelDefs()>
<if(trace)>
TraceIn('<ruleName>_fragment', <ruleDescriptor.index>);
try
<block>
finally
TraceOut('<ruleName>_fragment', <ruleDescriptor.index>);
end;
<else>
<block>
<endif>
end;
// $ANTLR end "<ruleName>"
>>

```

```
synpredDecls(name) ::= <<
SynPredPointer <name>;<\n>
>>
```

```
synpred(name) ::= <<
```

```
function T<grammar.recognizerName>.<name>: Boolean;
var
  Start: Integer;
  Success: Boolean;
begin
  State.Backtracking := State.Backtracking + 1;
  <@start(>
  Start := Input.Mark;
  try
    <name>_fragment(); // can never throw exception
  except
    on RE: ERecognitionException do
      WriteLn('Impossible: ' + RE.ToString);
  end;
  Success := not State.Failed;
  Input.Rewind(Start);
  <@stop(>
  State.Backtracking := State.Backtracking - 1;
  State.Failed := False;
  Result := Success;
end;<\n>
>>
```

```
lexerSynpred(name) ::= <<
<synpred(name)>
>>
```

```
lexerSynpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>
```

```
synpredDeclaration(name) ::= <<
function <name>: Boolean;
procedure <name>_fragment;
>>
```

```
ruleMemoization(name) ::= <<
<if(memoize)>
if ((State.Backtracking > 0) and AlreadyParsedRule(Input, <ruleDescriptor.index>)) then
  Exit(<ruleReturnValue(>);
```

```

<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if(backtracking)><\n>if (State.Failed) then Exit(<ruleReturnValue(>);<\n><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (State.Backtracking > 0) then
begin
  State.Failed := True;
  Exit(<ruleReturnValue(>);
end;<endif>
>>

genericParserRuleDeclaration(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
<ruleAttributeScopeDeclaration(scope=ruleDescriptor.ruleScope)>
<returnScopeDeclaration(scope=ruleDescriptor.returnScope)>
public
<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType(>);<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType(>);<\n>
<else>
procedure <rule.ruleName>;<\n>
<endif>
<endif>
<endif>
>>

genericParserRuleInterface(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.isSynPred)>
<else>
<if(ruleDescriptor.hasMultipleReturnValues)>
function <rule.ruleName>: I<returnType(>);<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function <rule.ruleName>: <returnType(>);<\n>
<else>
procedure <rule.ruleName>;<\n>
<endif>
<endif>
<endif>

```

>>

```
genericParserRuleReturnType(rule, ruleDescriptor) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(ruleDescriptor.isSynPred)>
<else>
I<returnType()> = interface(I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope)
end;<\n>
<endif>
<endif>
>>
```

/\*\* How to generate code for a rule. This includes any return type

\* data aggregates required for multiple return values.

\*/

```
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(scope=ruleDescriptor.returnScope)>

// $ANTLR start "<ruleName>"
(* <fileName>:<description> *)
<if(ruleDescriptor.hasMultipleReturnValues)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope;parameterScope(scope=it)>):
I<returnType()>;
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
function T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope;parameterScope(scope=it)>):
<returnType()>;
<else>
procedure
T<grammar.recognizerName>.<ruleName>(<ruleDescriptor.parameterScope;parameterScope(scope=it)>);
<endif>
<endif>
```

var

```
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal: I<returnType()>;<\n>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
RetVal: <returnType()>;<\n>
<else>
<endif>
<endif>
Alt: array [0..<grammar.numberOfDecisions>] of Integer;
<ruleDeclarationVars()>
<ruleLabelDefVars()>
```

```

begin
Locals.Initialize;
try
  <if(trace)>TraceIn('<ruleName>', <ruleDescriptor.index>);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleLabelDefs()>
  <ruleDescriptor.actions.init>
  <@preamble()>
  try
    try
      <ruleMemoization(name=ruleName)>
      <block>
      <ruleCleanUp()>
      <(ruleDescriptor.actions.after):execAction()>
    <if(exceptions)>
      <exceptions: { e|<catch(decl=e.decl,action=e.action)><\n>}>
    <else>
    <if(!emptyRule)>
    <if(actions.(actionScope).rulecatch)>
      <actions.(actionScope).rulecatch>
    <else>
      except
        on RE: ERecognitionException do
          begin
            ReportError(RE);
            Recover(Input,RE);
            <@setErrorReturnValue()>
          end;<\n>
        <endif>
      <endif>
    <endif>
    end;
  finally
    <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <memoize()>
    <ruleScopeCleanUp()>
  <finally>
  end;
  <@postamble()>
  finally
    Locals.Finalize;
  end;
  Exit(<ruleReturnValue()>);
end;
// $ANTLR end "<ruleName>"
>>

```

```

catch(decl,action) ::= <<
catch (<e.decl>)
{
  <e.action>
}
>>

```

```

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal := T<returnType().Create;
RetVal.Start := Input.LT(1);<\n>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name> := <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex := Input.Index();
<endif>
>>

```

```

ruleDeclarationVars() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.name>: <a.type>;
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_StartIndex: Integer;
<endif>
>>

```

```

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {<it>Stack.Push(T<it>Scope.Create);}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>Stack.Push(T<it.name>Scope.Create);}; separator="\n">
>>

```

```

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {<it>Stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: {<it.name>Stack.Pop();}; separator="\n">
>>

```

```

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]: {<it.label.text> := nil;}; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]: {list_<it.label.text> := nil;}; separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(label=it); separator="\n">
<ruleDescriptor.ruleListLabels: {ll<ll.label.text> := nil;}; separator="\n">

```

>>

```
ruleLabelDefVars() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels]:{ <it.label.text>: I<labelType>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{ list_<it.label.text>: IList<IANTLRInterface>;};
separator="\n">
<ruleDescriptor.ruleLabels:ruleLabelDefVar(label=it); separator="\n">
<ruleDescriptor.ruleListLabels:{ ll<ll.label.text>: <ruleLabelType(referencedRule=ll.referencedRule)>;};
separator="\n">
>>
```

```
lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text> := nil;}; separator="\n"
>
<ruleDescriptor.charLabels:{ int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {List_<it.label.text> := nil;}; separator="\n"
>
>>
```

```
lexerRuleLabelDefDeclarations() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {<it.label.text>: I<labelType>;}; separator="\n"
>
<ruleDescriptor.charLabels:{ int <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels,
ruleDescriptor.ruleListLabels]
: {List_<it.label.text>: IList;}; separator="\n"
>
>>
```

```
ruleReturnValue() ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
RetVal
<endif>
<else>
```

```

<! nil !>
<endif>
<endif>
>>

ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
RetVal.Stop := Input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (State.Backtracking > 0) then
Memoize(Input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex);
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
// $ANTLR start "<ruleName>"
<ruleDescriptor.parameterScope>
procedure
T<grammar.recognizerName>.m<ruleName>(<ruleDescriptor.parameterScope:parameterScope(scope=it)>);
var
<ruleDescriptor.actions.vars>
Locals: TLocalStorage;
TokenType, Channel: Integer;
Alt: array [0..<grammar.numberofDecisions>] of Integer;
<lexerRuleLabelDefDeclarations()>
begin
Locals.Initialize;
try
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<if(trace)>TraceIn("<ruleName>", <ruleDescriptor.index>);<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
try
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>

```

```

    <block><\n>
<else>
    TokenType := <ruleName>;
    Channel := DEFAULT_TOKEN_CHANNEL;
    <ruleMemoization(name=ruleName)>
    <lexerRuleLabelDefs(>
    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp(>
    State.TokenType := TokenType;
    State.Channel := Channel;
    <(ruleDescriptor.actions.after):execAction(>
<endif>
    finally
    <if(trace)>TraceOut("<ruleName>", <ruleDescriptor.index>);<endif>
    <ruleScopeCleanUp(>
    <memoize(>
    end;
    finally
    Locals.Finalize;
    end;
    end;
    // $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
procedure T<grammar.recognizerName>.mTokens;
var
    Alt: array [0..<grammar.numberOfDecisions>] of Integer;
begin
    <block>
end;

procedure T<grammar.recognizerName>.DoTokens;
begin
    mTokens;
end;
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[<decisionNumber>] := <maxAlt>;

```

```

<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
case Alt[<decisionNumber>] of
  <alts:altSwitchCase()>
end;
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
Alt[<decisionNumber>] := <maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
case Alt[<decisionNumber>] of
  <alts:altSwitchCase()>
end;
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
(* <fileName>:<description> *)
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
(* <fileName>:<description> *)
FCnt[<decisionNumber>] := 0;
<decls>
<@preloop()>

```

```

while (True) do
begin
  Alt[<decisionNumber>] := <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  case Alt[<decisionNumber>] of
    <alts:altSwitchCase()>
  else
    begin
      if (FCnt[<decisionNumber>] >= 1) then
        Break;
      <ruleBacktrackFailure()>
      raise EEarlyExitException.Create(<decisionNumber>, Input);
      <@earlyExitException()>
    end;
  end;
  Inc(FCnt[<decisionNumber>]);
end;
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/\*\* A (..)\* block with 1 or more alternatives \*/

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

(\* <fileName>:<description> \*)

<decls>

<@preloop()>

while (True) do

begin

Alt[<decisionNumber>] := <maxAlt>;

<@predecision()>

<decision>

<@postdecision()>

case Alt[<decisionNumber>] of

<alts:altSwitchCase()>

else

Break;

end;

end;

<@postloop()>

>>

closureBlockSingleAlt ::= closureBlock

/\*\* Optional blocks (x)? are translated to (x|) by before code generation

```

* so we can just use the normal block template
*/
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase() ::= <<
<i>:
<@prealt()>
<it><\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
(* <fileName>:<description> *)
begin
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
end;
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element() ::= <<
<@prematch()>
<it.el>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label> := <endif>Match(Input, <token>,
FOLLOW_<token>_in_<ruleName><elementIndex>)<if(label)> as
I<labelType><endif>;<\n><checkRuleBacktrackFailure()>
>>

/** ids+=ID */

```

```

tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> = nil) then list_<label> := TList<IANTLRInterface>.Create;
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure()>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> := Input.LA(1);<\n>
<endif>
MatchRange(<a>, <b>); <checkRuleBacktrackFailure()>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label> := Input.LA(1);<\n>
<else>
<label> := Input.LT(1) as I<labelType>;<\n>
<endif>
<endif>
if (<s>) then
begin
Input.Consume;
<postmatchCode>
<if(!LEXER)>
State.ErrorRecovery := False;<endif>
<if(backtracking)>State.Failed := False;<endif>
end
else
begin
<ruleBacktrackFailure()>
FException := EMismatchedSetException.Create(nil, Input);
<@mismatchedSetException()>

```

```

<if(LEXER)>
  Recover(FException);
  raise FException;<\n>
<else>
  raise FException;
  <! use following code to make it recover inline; remove throw mse;
  RecoverFromMismatchedSet(input,mse,FOLLOW_set_in_<ruleName><elementIndex>);
  !>
<endif>
end;<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <<
<if(label)>
  Locals.AsInteger['<label>Start'] := CharIndex;
  Match(<string>); <checkRuleBacktrackFailure()>
  <label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
  Locals.AsInteger['<label>Start'], CharIndex-1);
<else>
  Match(<string>); <checkRuleBacktrackFailure()>
<endif>
>>

wildcard(label,elementIndex) ::= <<
<if(label)>
  <label> := Input.LT(1) as I<labelType>;<\n>
<endif>
  MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(label,elementIndex) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
  <label> := Input.LA(1);<\n>
<endif>

```

```

MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(FOLLOW_<rule.name>_in_<ruleName><elementIndex>);
<if(label)>
<label> := <if(scope)><scope:delegateName()>.<endif><rule.name>(<args; separator=", ">);<\n>
<else>
<if(scope)>T<scope.recognizerName>(IANTLRObject(<scope:delegateName()>).Implementor).<endif><rule.name>
>(<args; separator=", ">);<\n>
<endif>
State.FollowingStackPointer := State.FollowingStackPointer - 1;
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

/** A lexer rule reference.
 *
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
<if(scope)><scope:delegateName()>.<endif>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<label> := TCommonToken.Create(Input, TToken.INVALID_TOKEN_TYPE, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex - 1);
<else>
<if(scope)><scope:delegateName()>.Implementor as T<scope.recognizerName>.<endif>m<rule.name>(<args;
separator=", ">); <checkRuleBacktrackFailure()>

```

```

<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
Locals.AsInteger['<label>Start<elementIndex>'] := CharIndex;
Match(EOF); <checkRuleBacktrackFailure()>
Locals['<label>'] := TCommonToken.Create(Input, EOF, TToken.DEFAULT_CHANNEL,
Locals.AsInteger['<label>Start<elementIndex>'], CharIndex-1);
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
>>

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (Input.LA(1) = TToken.DOWN) then
begin
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()>
Match(Input, TToken.UP, nil); <checkRuleBacktrackFailure()>
end;
<else>
Match(Input, TToken.DOWN, nil); <checkRuleBacktrackFailure()>
<children:element()>
Match(Input, TToken.UP, nil);<\n><checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if (not (<evalPredicate(...)>)) then
begin
<ruleBacktrackFailure()>
raise EFailedPredicateException.Create(Input, '<ruleName>', '<description>');

```

```

end;<\n>
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
begin
<if(eotPredictsAlt)>
Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
<else>
<ruleBacktrackFailure()>
raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
<endif>
end;
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);<\n>
<edges; separator="\nelse ">;
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(<k>);
<edges; separator="\nelse ">;<\n>
<if(eotPredictsAlt)>
<if(!edges)>
Alt[<decisionNumber>] := <eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else
begin
Alt[<decisionNumber>] := <eotPredictsAlt>;
end;<\n>
<endif>
<endif>

```

```

>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "Alt[<decisionNumber>] := <alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> and (<predicates>)<endif>) then
begin
  <targetState>
end <! no ; here !>
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n">
else
  begin
    <if(eotPredictsAlt)>
      Alt[<decisionNumber>] := <eotPredictsAlt>;
    <else>
      <ruleBacktrackFailure()>
      <@noViableAltException()>
      raise ENoViableAltException.Create('<description>', <decisionNumber>, <stateNumber>, Input);<\n>
    <endif>
  end;
end;<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n">
end;<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
case Input.LA(<k>) of
  <edges; separator="\n"><\n>
  <if(eotPredictsAlt)>
else

```

```

Alt[<decisionNumber>] := <eotPredictsAlt>;<\n>
<endif>
end;<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{<it>}; separator=",\n">:
begin
  <targetState>
end;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
Alt[<decisionNumber>] := FDFA<decisionNumber>.Predict(Input);
>>

/* Dump DFA tables.
 */
cyclicDFADeclaration(dfa) ::= <<
strict protected
type
  TDFA<dfa.decisionNumber> = class(TDFA)
protected
  { IDFA }
  function Description: String; override;
public
  constructor Create(const ARecognizer: IBaseRecognizer);
end;
var
  FDFA<dfa.decisionNumber>: IDFA;
<if(dfa.specialStateSTs)>
strict protected
function DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S: Integer;
  const AInput: IIntStream): Integer;<endif>
>>

cyclicDFA(dfa) ::= <<
{ T<grammar.recognizerName>.TDFA<dfa.decisionNumber> }

constructor T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Create(const ARecognizer:
IBaseRecognizer);
const

```

```

DFA<dfa.decisionNumber>_EOT = '<dfa.javaCompressedEOT; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_EOF = '<dfa.javaCompressedEOF; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_MIN = '<dfa.javaCompressedMin; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_MAX = '<dfa.javaCompressedMax; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_ACCEPT = '<dfa.javaCompressedAccept; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_SPECIAL = '<dfa.javaCompressedSpecial; wrap=""+\n  "'>;
DFA<dfa.decisionNumber>_TRANSITION: array [0..<length(dfa.javaCompressedTransition)>-1] of String = (
  <dfa.javaCompressedTransition: {s|<s; wrap=""+\n">'}; separator=",\n">);
begin
inherited Create;
Recognizer := ARecognizer;
DecisionNumber := <dfa.decisionNumber>;
EOT := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOT);
EOF := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_EOF);
Min := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MIN);
Max := TDFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_MAX);
Accept := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_ACCEPT);
Special := TDFA.UnpackEncodedString(DFA<dfa.decisionNumber>_SPECIAL);
Transition := TDFA.UnpackEncodedStringArray(DFA<dfa.decisionNumber>_TRANSITION);
end;

function T<grammar.recognizerName>.TDFA<dfa.decisionNumber>.Description: String;
begin
  Result := '<dfa.description>';
end;<\n>
<if(dfa.specialStateSTs)>
function T<grammar.recognizerName>.DFA<dfa.decisionNumber>_SpecialStateTransition(const DFA: IDFA; S:
Integer;
const AInput: IIntStream): Integer;
var
  Locals: TLocalStorage;
  <if(LEXER)>
  Input: IIntStream;
  <endif>
  <if(PARSER)>
  Input: ITokenStream;
  <endif>
  <if(TREE_PARSER)>
  Input: ITreeNodeStream;
  <endif>
  _S: Integer;
  NVAE: ENoViableAltException;
begin
  Result := -1;
  Locals.Initialize;
  try
    <if(LEXER)>
    Input := AInput;

```

```

<endif>
<if(PARSER)>
Input := AInput as ITokenStream;
<endif>
<if(TREE_PARSER)>
Input := AInput as ITreeNodeStream;
<endif>
_S := S;
case S of
  <dfa.specialStateSTs:{state | <i0>: begin<! compressed special state numbers 0..n-1 !>
  <state> <\n> end;}; separator="\n">
  end;
<if(backtracking)>
  if (State.Backtracking > 0) then
  begin
    State.Failed := True;
    Exit(-1);
  end;<\n>
<endif>
  NVAE := ENoViableAltException.Create(DFA.Description, <dfa.decisionNumber>, _S, Input);
  DFA.Error(NVAE);
  raise NVAE;
finally
  Locals.Finalize;
end;
end;<\n>
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
FLA[<decisionNumber>,<stateNumber>] := Input.LA(1);<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
Locals.AsInteger['index<decisionNumber>_<stateNumber>'] := Input.Index;
Input.Rewind;<\n>
<endif>
S := -1;
<edges; separator="\nelse ">;
<if(semPredState)> <! return input cursor to state before we rewound !>
Input.Seek(Locals.AsInteger['index<decisionNumber>_<stateNumber>']);<\n>
<endif>
if (S >= 0) then
  Exit(S);
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what

```

```

* state to jump to next if successful.
*/
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr><if(predicates)> and (<predicates><endif>) then
  S := <targetStateNumber>
>>

/** An edge pointing at end-of-token; essentially matches any char;
* always jump to the target.
*/
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
S := <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "(<left> and (<right>))"

orPredicates(operands) ::= "(<operands:{o|(<o>)}; separator=\" or \")"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "(<pred>)"

evalSynPredicate(pred,description) ::= "<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "FLA[<decisionNumber>,<stateNumber>] = <atomAsInt>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
* somewhere. Must ask for the lookahead directly.
*/
isolatedLookaheadTest(atom,k,atomAsInt) ::= "Input.LA(<k>) = <atomAsInt>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <<
((FLA[<decisionNumber>,<stateNumber>] \>= <lowerAsInt>) and (FLA[<decisionNumber>,<stateNumber>] \<=
<upperAsInt>))
>>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(Input.LA(<k>) \>=
<lowerAsInt>) and (Input.LA(<k>) \<= <upperAsInt>)"

setTest(ranges) ::= "<ranges; separator=\" or (\")"

// A T T R I B U T E S

globalAttributeScope(scope) ::= <<
<scope.name>Stack := TStackList<I<scope.name>Scope>.Create;<\n>

```

```

<endif>
>>

globalAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
  I<scope.name>Scope = interface(IANTLRObject)
  end;
  T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
  protected
    <scope.attributes:{<it.name>: <it.type>;}; separator="\n">
  end;
strict protected
  <scope.name>Stack: IStackList<I<scope.name>Scope>;
<endif>
>>

ruleAttributeScopeDeclaration(scope) ::= <<
<if(scope.attributes)>
strict protected
type
  I<scope.name>Scope = interface(IANTLRObject)
  end;
  T<scope.name>Scope = class(TANTLRObject, I<scope.name>Scope)
  protected
    <scope.attributes:{<it.name>: <it.type>;}; separator="\n">
  end;
strict protected
  <scope.name>Stack: IStackList<I<scope.name>Scope>;
<endif>
>>

ruleAttributeScope(scope) ::= <<
<! protected Stack <scope.name>Stack = new Stack();<\n !>
>>

ruleAttributeScopeInit(scope) ::= <<
<if(scope)>
<scope.name>Stack := TStackList<I<scope.name>Scope>.Create;<\n>
<endif>
>>

returnStructName() ::= "<it.name>_return"

returnType() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()>

```

```

<! I<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope !>
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
<! Pointer/void !>
<endif>
<endif>
>>

/** Generate the C# type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
I<referencedRule.name>_return
<else>
<if(referencedRule.hasSingleReturnValue)>
<referencedRule.singleValueReturnType>
<else>
void
<endif>
<endif>
>>

delegateName() ::= <<
<if(it.label)><it.label><else>g<it.name><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) ::= <<
<csharpTypeInitMap.(typeName)>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> := <initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
>>

ruleLabelDefVar(label) ::= <<
<label.label.text>: <ruleLabelType(referencedRule=label.referencedRule)>;
>>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.

```

```

*/
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
{ T<ruleDescriptor:returnStructName()> }

<scope.attributes:{public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
<endif>
>>

returnScopeDeclaration(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
public
type
  T<ruleDescriptor:returnStructName()> =
class(T<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope, I<ruleDescriptor:returnStructName()>)
  <scope.attributes:{public <it.decl>;}; separator="\n">
  <@ruleReturnMembers()>
  end;
<endif>
>>

parameterScope(scope) ::= <<
<scope.attributes:{<it.decl>;}; separator=", ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> := <expr>;"

scopeAttributeRef(scope,attr,index,negIndex) ::= <<
<if(negIndex)>
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name>
<else>
<if(index)>
(<scope>Stack[<index>] as T<scope>Scope).<attr.name>
((<scope>_scope)<scope>_stack[<index>]).<attr.name>
<else>
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name>
<endif>
<endif>
>>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <<
<if(negIndex)>
(<scope>Stack[<scope>Stack.Count-<negIndex>-1] as T<scope>Scope).<attr.name> := <expr>;<\n>
<else>
<if(index)>
(<scope>Stack[<index>] as T<scope>Scope).<attr.name> := <expr>;<\n>

```

```

<else>
(<scope>Stack.Peek.Implementor as T<scope>Scope).<attr.name> := <expr>;<\n>
<endif>
<endif>
>>

```

```

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {$function.size()>0 && $function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>Stack"

```

```

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(IfThen(Assigned(<scope>),Def(<scope>).<attr.name>,<initValue(attr.type)>))
<else>
<scope>
<endif>
>>

```

```

returnAttributeRef(ruleDescriptor,attr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal.<attr.name>
<else>
<attr.name>
<endif>
>>

```

```

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
RetVal.<attr.name> := <expr>;
<else>
<attr.name> := <expr>;
<endif>
>>

```

```

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

```

```

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

```

```

// not sure the next are the right approach

```

```

tokenLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
tokenLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"

```

```

tokenLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
tokenLabelPropertyRef_pos(scope,attr) ::= "(Def(<scope>).CharPositionInLine)"
tokenLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
tokenLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

ruleLabelPropertyRef_start(scope,attr) ::= "(IfThen(Assigned(<scope>), Def(<scope>).Start, nil) as I<labelType>)"
ruleLabelPropertyRef_stop(scope,attr) ::= "(Def(<scope>).Stop as I<labelType>)"
ruleLabelPropertyRef_tree(scope,attr) ::= "(Def(Def(<scope>).Tree as I<ASTLabelType>))"
ruleLabelPropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
IfThen(Assigned(<scope>), Input.TokenStream.ToString(
    Input.TreeAdaptor.GetTokenStartIndex(Def(<scope>).Start),
    Input.TreeAdaptor.GetTokenStopIndex(Def(<scope>).Start)), ")
<else>
IfThen(Assigned(<scope>), Input.ToString(
    (Def(<scope>).Start) as IToken,(Def(<scope>).Stop) as IToken), ")
<endif>
>>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> != null) ? <scope>.ST : null)"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "(Def(<scope>).TokenType)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "(Def(<scope>).Line)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "(IfThen(Assigned(<scope>),Def(<scope>).CharPositionInLine,-1))"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "(Def(<scope>).Channel)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "(Def(<scope>).TokenIndex)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "(Def(<scope>).Text)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "(StrToIntDef(Def(<scope>).Text,0))"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "(RetVal.Start as I<labelType>)"
rulePropertyRef_stop(scope,attr) ::= "(RetVal.Stop as I<labelType>)"
rulePropertyRef_tree(scope,attr) ::= "(RetVal.Tree as I<ASTLabelType>)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
Input.TokenStream.ToString(
    Input.TreeAdaptor.GetTokenStartIndex(RetVal.Start),
    Input.TreeAdaptor.GetTokenStopIndex(RetVal.Start))
<else>
Input.ToString(RetVal.Start as IToken,Input.LT(-1))
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "RetVal.ST"

```

```

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "TokenType"
lexerRulePropertyRef_line(scope,attr) ::= "State.TokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "State.TokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "Channel"
lexerRulePropertyRef_start(scope,attr) ::= "State.TokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "StrToInt(<scope>.Text)"

```

```

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "RetVal.Tree := <expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "RetVal.ST := <expr>;"

```

```

/** How to execute an action (only when not backtracking) */

```

```

execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if (<actions.(actionScope).synpredgate>) then
begin
<action>
end;
<else>
if (State.Backtracking = 0) then
begin
<action>
end;<\n>
<endif>
<else>
<action>
<endif>
>>

```

```

/** How to always execute an action even when backtracking */

```

```

execForcedAction(action) ::= "<action>"

```

```

// M I S C (properties, etc...)

```

```

bitset(name, words64) ::= <<
<name> := TBitSet.Create([<words64: {<it>} ; separator=",">]);<\n>
>>

```

```

bitsetDecl(name) ::= <<
<name>: IBitSet;<\n>
>>

```

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

```
true() ::= "True"
```

```
false() ::= "False"
```

```
Found in path(s):
```

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/Delphi/Delphi.stg
```

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

```
/*
```

```
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```

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```

```
*
```

```
* Conversion to C#:
```

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```

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```
*
```

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```

```
*/
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
<if(!TREE_PARSER)>
```

```
<! tree parser would already have imported !>
```

```

using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
<endif>
>>

@genericParser.members() ::= <<
<@super.members()>
<parserMembers()>
>>

parserCtorBody() ::= <<
<super.parserCtorBody()>
<treeAdaptorType()> treeAdaptor = default(<treeAdaptorType()>);
CreateTreeAdaptor(ref treeAdaptor);
TreeAdaptor = treeAdaptor<if(!actions.(actionScope).treeAdaptorType)> ?? new CommonTreeAdaptor(<endif>);
>>

/** Add an adaptor property that knows how to build trees */
parserMembers() ::= <<
// Implement this function in your helper file to use a custom tree adaptor
partial void CreateTreeAdaptor(ref <treeAdaptorType()> adaptor);

private <treeAdaptorType()> adaptor;

public <treeAdaptorType()> TreeAdaptor
{
    get
    {
        return adaptor;
    }

    set
    {
        this.adaptor = value;
        <grammar.directDelegates:{g|<g.delegateName()>.TreeAdaptor = this.adaptor;}>
    }
}
>>

treeAdaptorType() ::= <<
<actions.(actionScope).treeAdaptorType; null="ITreeAdaptor">
>>

ruleReturnBaseType() ::= <%
Ast<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<ASTLabelType>, <labelType>>
%>

/** Add a variable to track rule's return AST */

```

```

ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0 = default(<ASTLabelType>);<\n>
>>

ruleLabelDefs(ruleDescriptor, labelType, ASTLabelType, rewriteElementType) ::= <%
<super.ruleLabelDefs(...)>
<if(!ruleDescriptor.isSynPred)>
<[ruleDescriptor.tokenLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it|<\n><ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}>
<ruleDescriptor.tokenListLabels: {it|<\n><ASTLabelType> <it.label.text>_tree = default(<ASTLabelType>);}>
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {it|<\n>RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>");}>
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {it|<\n>RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule <it>");}>
<endif>
%>

/** When doing auto AST construction, we must define some variables;
* These should be turned off if doing rewrites. This must be a "mode"
* as a rule could have both rewrite and AST within the same alternative
* block.
*/
@alt.declarations() ::= <<
<if(autoAST && outerAlt && !rewriteMode && !ruleDescriptor.isSynPred)>
root_0 = (<ASTLabelType>)adaptor.Nil();
<endif>
>>

// Tracking Rule Elements

/** ID and track it for use in a rewrite rule */
tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);<\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<

```

```

<tokenRefBang(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<token>.Add(<label>);
>>

/** Match ^(label+=TOKEN ...) track for rewrite */
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefRuleRootTrack(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule.name>.Add(<label>.Tree);
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>stream_<rule>.Add(<label>.Tree);
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

// R e w r i t e

rewriteCode(
alts, description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel, enclosingTreeLevel, treeLevel) ::= <<
<\n>{
// AST REWRITE

```

```

// elements: <referencedElementsDeep; separator=", ">
// token labels: <referencedTokenLabels; separator=", ">
// rule labels: <referencedRuleLabels; separator=", ">
// token list labels: <referencedTokenListLabels; separator=", ">
// rule list labels: <referencedRuleListLabels; separator=", ">
// wildcard labels: <[referencedWildcardLabels,referencedWildcardListLabels]; separator=", ">
<if(backtracking)>
if (<actions.(actionScope).synpredgate>) {
<endif>
<prevRuleRootRef().Tree = root_0;
<rewriteCodeLabels()>
root_0 = (<ASTLabelType>)adaptor.Nil();
<alts:rewriteAlt(); separator="else ">
<! if tree parser and rewrite=true !>
<if(TREE_PARSER&&rewriteMode)>
<prevRuleRootRef().Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
if (<prevRuleRootRef().Tree != null)
input.ReplaceChildren(adaptor.GetParent(retval.Start), adaptor.GetChildIndex(retval.Start),
adaptor.GetChildIndex(_last), retval.Tree);
<endif>
<! if parser or tree-parser && rewrite!=true, we need to set result !>
<if(!TREE_PARSER||!rewriteMode)>
<prevRuleRootRef().Tree = root_0;
<endif>
<if(backtracking)>
}
<endif>
}
>>

rewriteCodeLabels() ::= <<
<referencedTokenLabels
: {it|RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it>",<it>)};
separator="\n"
>
<referencedTokenListLabels
: {it|RewriteRule<rewriteElementType>Stream stream_<it>=new
RewriteRule<rewriteElementType>Stream(adaptor,"token <it> ", list_<it>)};
separator="\n"
>
<referencedWildcardLabels
: {it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it>",<it>)};
separator="\n"
>
<referencedWildcardListLabels
: {it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"wildcard <it> ",list_<it>)};

```

```

separator="\n"
>
<referencedRuleLabels
  :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"rule
<it>",<it>!=null?<it>.Tree:null);};
  separator="\n"
>
<referencedRuleListLabels
  :{it|RewriteRuleSubtreeStream stream_<it>=new RewriteRuleSubtreeStream(adaptor,"token <it>",list_<it>);};
  separator="\n"
>
>>

```

```

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */

```

```

rewriteOptionalBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
if (<referencedElementsDeep:{el | stream_<el>.HasNext}; separator="||">)
{
  <alt>
}
<referencedElementsDeep:{el | stream_<el>.Reset();<\n>}>
>>

```

```

rewriteClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
// <fileName>:<description>
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
  <alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n>}>
>>

```

```

rewritePositiveClosureBlock(
  alt,rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks

```

```

description) ::=
<<
if (!(<referencedElements:{el | stream_<el>.HasNext}; separator="||">))
{
throw new RewriteEarlyExitException();
}
while ( <referencedElements:{el | stream_<el>.HasNext}; separator="||"> )
{
<alt>
}
<referencedElements:{el | stream_<el>.Reset();<\n}>
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if (<a.pred>)
{
<a.alt>
}
<else>
{
<a.alt>
}
<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = null;"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
<root:rewriteElement()>
<children:rewriteElement()>
adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <%
<@pregen()>
DebugLocation(<e.line>, <e.pos>);<\n>
<e.el>
%>

```

```

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
adaptor.AddChild(root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextNode());<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createRewriteNodeFromElement(...)>,
root_<treeLevel>);<\n>
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
adaptor.AddChild(root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<createImaginaryNode(tokenType=token, ...)>,
root_<treeLevel>);<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/

```

```

prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<rule>.NextTree());<\n>
>>

rewriteRuleRefRoot(rule) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<rule>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteNodeAction(action) ::= <<
adaptor.AddChild(root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<action>, root_<treeLevel>);<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(stream_<label>.NextNode(), root_<treeLevel>);<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
adaptor.AddChild(root_<treeLevel>, stream_<label>.NextTree());<\n>
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
new <terminalOptions.node><tokenType><if(args)>, <args; separator=", "><endif>
<else>
(<ASTLabelType>)adaptor.Create(<tokenType>, <args; separator=", "><if(!args)>"<tokenType>"<endif>)

```

```

<endif>
%>

createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.NextToken()<if(args)>, <args; separator=", "><endif>)
<else>
<if(args)> <! must create new node from old !>
adaptor.Create(<token>, <args; separator=", ">)
<else>
stream_<token>.NextNode()
<endif>
<endif>
%>

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/AST.stg
```

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```
/*
```

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```

```
*/
```

```

/*
 * Template group file for the Objective C code generator.
 * Heavily based on Java.stg
 *
 * Written by Kay Roepke <kroepke(at)classdump.org>
 * Modified by Alan Condit <acondit(at)ipns.com>
 *
 * This file is part of ANTLR and subject to the same license as ANTLR itself.
 */

objcTypeInitMap ::= [
    "int"      : "0",          // Integers   start out being 0
    "long"     : "0",          // Longs     start out being 0
    "float"    : "0.0",       // Floats    start out being 0
    "double"   : "0.0",       // Doubles   start out being 0
    "BOOL"     : "NO",        // Booleans  start out being Antlr ObjC for false
    "byte"     : "0",          // Bytes     start out being 0
    "short"    : "0",          // Shorts    start out being 0
    "char"     : "0",          // Chars     start out being 0
    "id"       : "nil",        // ids       start out being nil
    default    : "nil"         // anything other than an atomic type
]

// System.Boolean.ToString() returns "True" and "False", but the proper C# literals are "true" and "false"
// The Java version of Boolean returns "true" and "false", so they map to themselves here.
booleanLiteral ::= [
    "True":"true",
    "False":"false",
    "true":"YES",
    "false":"NO",
    default:"NO"
]

className() ::= "<name><!<if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>"
leadIn(type) ::=
<<
/** \file
 * This <type> file was generated by $ANTLR version <ANTLRVersion>
 *
 * - From the grammar source file : <fileName>
 * -                               On : <generatedTimestamp>
<if(LEXER)>
 * -                               for the lexer : <name>Lexer
<endif>
<if(PARSER)>
 * -                               for the parser : <name>Parser
<endif>

```

```

<if(TREE_PARSER)>
*   -       for the tree parser : <name>TreeParser
<endif>
*
* Editing it, at least manually, is not wise.
*
* ObjC language generator and runtime by Alan Condit, acondit|hereisanat|ipns|dotgoeshere|com.
*
*
>>

/** The overall file structure of a recognizer; stores methods for rules
* and cyclic DFAs plus support code.
*/
outputFile( LEXER,
    PARSEr,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    buildAST,
    rewriteMode,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals
) ::=
<<
<leadIn("OBJC source")>
*/
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

```

```

<! <if(actions.(actionScope).header)>
/* =====
* This is what the grammar programmer asked us to put at the top of every file.
*/
<actions.(actionScope).header>
/* End of Header action.
* =====
*/
<endif> !>

/* -----
* Include the ANTLR3 generated header file.
*/
#import "<name><!<if(LEXER)>Lexer<else><if(TREE_PARSER)>Tree<endif>Parser<endif>!>.h"
<actions.(actionScope).postinclude>
/* ----- */

<docComment>

<if(literals)>
/** String literals used by <name> that we must do things like MATCHS() with.
* C will normally just lay down 8 bit characters, and you can use L"xxx" to
* get wchar_t, but wchar_t is 16 bits on Windows, which is not UTF32 and so
* we perform this little trick of defining the literals as arrays of UINT32
* and passing in the address of these.
*/
<literals:{it | static ANTLR3_UCHAR lit_<i>[] = <it>;}; separator="\n">

<endif>

/* ===== */
/* ===== */
* Start of recognizer
*/
<recognizer>
>>
headerFileExtension() ::= ".h"

headerFile( LEXER,
            PARSEr,
            TREE_PARSER,
            actionScope,
            actions,
            docComment,
            recognizer,
            name,
            tokens,
            tokenNames,

```

```

rules,
cyclicDFAs,
bitsets,
buildTemplate,
buildAST,
rewriteMode,
profile,
backtracking,
synpreds,
memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
superClass,
literals
) ::=
<<
// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

<@imports>
<actions.(actionScope).preincludes>
/* =====
* Standard antlr OBJC runtime definitions
*/
#import \<Cocoa/Cocoa.h>
#import \<ANTLR/ANTLR.h>
/* End of standard antlr3 runtime definitions
* =====
*/
<actions.(actionScope).includes>
<@end>

<if(LEXER)>
<lexerHeaderFile(...)>
<endif>
<if(PARSER)>
<parserHeaderFile(...)>
<endif>
<if(TREE_PARSER)>
<treeParserHeaderFile(...)>
<endif>
<docComment>
>>

lexerHeaderFile( LEXER,

```

```

    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass="Lexer"
) ::=

```

```
<<
```

```
<if(actions.(actionScope).header)>
```

```
/* =====
* This is what the grammar programmer asked us to put at the top of every file.
*/
```

```
<actions.(actionScope).header>
```

```
/* End of Header action.
```

```
* =====
*/
```

```
<endif>
```

```
/* Start cyclicDFAInterface */
```

```
<cyclicDFAs:cyclicDFAInterface(>
```

```
#pragma mark Rule return scopes Interface start
```

```
<rules:{rule |
```

```
<rule.ruleDescriptor:{ruleDescriptor | <returnScopeInterface(scope=ruleDescriptor.returnScope)>}}>
```

```
#pragma mark Rule return scopes Interface end
```

```
#pragma mark Tokens
```

```
#ifndef TOKENLISTAlreadyDefined
```

```
#define TOKENLISTAlreadyDefined 1
```

```
#ifdef EOF
```

```

#undef EOF
#endif
<tokens:{it | #define <it.name> <it.type>}; separator="\n">
#endif
/* interface lexer class */
@interface <className()> <@superClassName>: <superClass><@end> { // line 283
<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{ pred | SEL <pred>Selector;}; separator="\n">
/* ObjC start of actions.lexer.memVars */
<actions.lexer.memVars>
/* ObjC end of actions.lexer.memVars */
}
+ (void) initialize;
+ (<className()> *)new<className()>WithCharStream:(id<CharStream>)anInput;
/* ObjC start actions.lexer.methodsDecl */
<actions.lexer.methodsDecl>
/* ObjC end actions.lexer.methodsDecl */
<rules:{rule |
- (<rule.ruleDescriptor:{ruleDescriptor|<returnType()>}>)
<if(!rule.ruleDescriptor.isSynPred)>m<rule.ruleName><else><rule.ruleName>_fragment<endif>
<if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope:parameterScope()><endif>; };
separator="\n"><\n>
@end /* end of <className()> interface */<\n>
>>

headerReturnScope(ruleDescriptor) ::= "<returnScopeInterface(...)>"
headerReturnType(ruleDescriptor) ::= <<
<if(LEXER)>
<if(!r.ruleDescriptor.isSynPred)>
void
<else>
<ruleDescriptor:returnType()>
<endif>
<else>
<ruleDescriptor:returnType()>
<endif>
>>
// Produce the lexer output
lexer( grammar,
    name,
    tokens,
    scopes,
    rules,
    numRules,
    filterMode,
    labelType="CommonToken",
    superClass="Lexer"
) ::= <<

```

```

<cyclicDFAs:cyclicDFA()>

/** As per Terence: No returns for lexer rules! */
<!
#pragma mark Rule return scopes start
<rules:{rule | <rule.ruleDescriptor:{ruleDescriptor |
<returnScopeImplementation(scope=ruleDescriptor.returnScope)>>}>
}>
#pragma mark Rule return scopes end
!>
@implementation <grammar.recognizerName> // line 330

+ (void) initialize
{
    [BaseRecognizer setGrammarFileName:@"<fileName>"];
}

+ (NSString *) tokenNameForType:(NSInteger)aTokenType
{
    return [[self getTokenNames] objectAtIndex:aTokenType];
}

+ (<grammar.recognizerName> *)new<grammar.recognizerName>WithCharStream:(id<CharStream>)anInput
{
    return [[<grammar.recognizerName> alloc] initWithCharStream:anInput];
}

- (id) initWithCharStream:(id<CharStream>)anInput
{
    self = [super initWithCharStream:anInput State:[RecognizerSharedState
newRecognizerSharedStateWithRuleLen:<numRules>+1]];
    if ( self != nil ) {
<if(memoize)>
        if ( state.ruleMemo == nil ) {
            state.ruleMemo = [[RuleStack newRuleStackWithSize:<numRules>+1] retain];
        }
        if ( [state.ruleMemo count] == 0 ) {
            // initialize the memoization cache - the indices are 1-based in the runtime code!
            <! [state.ruleMemo addObject:[NSNull null]]; /* dummy entry to ensure 1-basedness. */ !>
            for (NSInteger i = 0; i < <numRules>; i++) {
                [state.ruleMemo addObject:[HashRule newHashRuleWithLen:17]];
            }
        }
    }
<endif>
    <synpreds:{pred | <lexerSynpred(name=pred)>};separator="\n">
    <cyclicDFAs:{dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">
    <actions.lexer.init>

```

```

    }
    return self;
}

- (void) dealloc
{
    <cyclicDFAs:{ dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
<actions.lexer.dealloc>
    [super dealloc];
}

/* ObjC Start of actions.lexer.methods */
<actions.lexer.methods>
/* ObjC end of actions.lexer.methods */
/* ObjC start methods() */
<@methods()>
/* ObjC end methods() */

<if(actions.lexer.reset)>
- (void) reset
{
    <actions.lexer.reset>
    [super reset];
}
<endif>

<if(filterMode)>
<filteringNextToken()>
<endif>
/* Start of Rules */
<rules; separator="\n">

@end /* end of <grammar.recognizerName> implementation line 397 */
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
- (id\<Token>) nextToken
{
    while (YES) {
        if ( [input LA:1] == CharStreamEOF ) {
            return [<labelType> eofToken];
        }
    }
}

```

```

state.token = nil;
state.channel = TokenChannelDefault;
state.tokenStartCharIndex = input.index;
state.tokenStartCharPositionInLine = input.charPositionInLine;
state.tokenStartLine = input.line;
state.text = nil;
@try {
    NSInteger m = [input mark];
    state.backtracking = 1; /* means we won't throw slow exception */
    state.failed = NO;
    [self mTokens];
    state.backtracking = 0;
    /* mTokens backtracks with synpred at backtracking==2
       and we set the synpredgate to allow actions at level 1. */
    if ( state.failed ) {
        [input rewind:m];
        [input consume]; /* advance one char and try again */
    } else {
        [self emit];
        return state.token;
    }
}
@catch (RecognitionException *re) {
    // shouldn't happen in backtracking mode, but...
    [self reportError:re];
    [self recover:re];
}
}
}

- (void)memoize:(id<IntStream>)anInput
  RuleIndex:(NSInteger)ruleIndex
  StartIndex:(NSInteger)ruleStartIndex
{
    if ( state.backtracking > 1 ) [super memoize:anInput RuleIndex:ruleIndex StartIndex:ruleStartIndex];
}

- (BOOL)alreadyParsedRule:(id<IntStream>)anInput RuleIndex:(NSInteger)ruleIndex
{
    if ( state.backtracking > 1 ) return [super alreadyParsedRule:anInput RuleIndex:ruleIndex];
    return NO;
}
>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

```

```

parserHeaderFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    literals,
    superClass="Parser"
) ::= <<
/* parserHeaderFile */
<genericParserHeaderFile(inputStreamType="id\<TokenStream>",...)>
>>

```

```

treeParserHeaderFile( LEXER,
    PARSER,
    TREE_PARSER,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    profile,
    backtracking,
    synpreds,

```

```

memoize,
numRules,
fileName,
ANTLRVersion,
generatedTimestamp,
trace,
scopes,
literals,
superClass="TreeParser"
) ::= <<
/* treeParserHeaderFile */
<genericParserHeaderFile(inputStreamType="id\<TreeNodeStream>",...)>
>>

```

```

genericParserHeaderFile( LEXER,
    PARSEr,
    TREE_PARSEr,
    actionScope,
    actions,
    docComment,
    recognizer,
    name,
    tokens,
    tokenNames,
    rules,
    cyclicDFAs,
    bitsets,
    buildTemplate,
    profile,
    backtracking,
    synpreds,
    memoize,
    numRules,
    fileName,
    ANTLRVersion,
    generatedTimestamp,
    trace,
    scopes,
    superClass,
    literals,
    inputStreamType
) ::=

```

```
<<
```

```
<if(actions.(actionScope).header)>
```

```
/* =====
```

```
* This is what the grammar programmer asked us to put at the top of every file.
```

```
*/
```

```
<actions.(actionScope).header>
```

```

/* End of Header action.
* =====
*/
<endif>

#ifndef ANTLR3TokenTypeAlreadyDefined
#define ANTLR3TokenTypeAlreadyDefined
typedef enum {
    ANTLR_EOF = -1,
    INVALID,
    EOR,
    DOWN,
    UP,
    MIN
} ANTLR3TokenType;
#endif

<cyclicDFAs:cyclicDFAInterface()>
#pragma mark Tokens
#ifndef TOKENLISTAlreadyDefined
#define TOKENLISTAlreadyDefined 1
#ifdef EOF
#undef EOF
#endif
<tokens:{it | #define <it.name> <it.type>}; separator="\n">
#endif
#pragma mark Dynamic Global Scopes globalAttributeScopeInterface
<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeInterface(scope=it)><endif>>>
#pragma mark Dynamic Rule Scopes ruleAttributeScopeInterface
<rules:{rule |
<rule.ruleDescriptor:{ ruleDescriptor | <ruleAttributeScopeInterface(scope=ruleDescriptor.ruleScope)>>>>
#pragma mark Rule Return Scopes returnScopeInterface
<rules:{rule |<rule.ruleDescriptor:{ ruleDescriptor |
<returnScopeInterface(scope=ruleDescriptor.returnScope)>>>>

/* Interface grammar class */
@interface <className()> <@superClassName> : <superClass><@end> { /* line 572 */
#pragma mark Dynamic Rule Scopes ruleAttributeScopeDecl
<rules:{rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeDecl(scope=rule.ruleDescriptor.ruleScope)>>>
#pragma mark Dynamic Global Rule Scopes globalAttributeScopeMemVar
<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeMemVar(scope=it)><endif>>><\n>
/* ObjC start of actions.(actionScope).memVars */
<actions.(actionScope).memVars>
/* ObjC end of actions.(actionScope).memVars */
/* ObjC start of memVars */
<@memVars()>
/* ObjC end of memVars */

```

```

<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> *dfa<dfa.decisionNumber>;}; separator="\n">
<synpreds:{ pred | SEL <pred>Selector;}; separator="\n">
}

/* ObjC start of actions.(actionScope).properties */
<actions.(actionScope).properties>
/* ObjC end of actions.(actionScope).properties */
/* ObjC start of properties */
<@properties()>
/* ObjC end of properties */

+ (void) initialize;
+ (<className()> *) new<className()>:(<inputStreamType>)aStream;
/* ObjC start of actions.(actionScope).methodsDecl */
<actions.(actionScope).methodsDecl>
/* ObjC end of actions.(actionScope).methodsDecl */

/* ObjC start of methodsDecl */
<@methodsDecl()>
/* ObjC end of methodsDecl */

<rules:{ rule |
-
(<rule.ruleDescriptor:{ ruleDescriptor|<returnType()>}>><if(!rule.ruleDescriptor.isSynPred)><rule.ruleName><else
><rule.ruleName>_fragment<endif><if(rule.ruleDescriptor.parameterScope)><rule.ruleDescriptor.parameterScope:
parameterScope()><endif>; }; separator="\n"><\n>

@end /* end of <className()> interface */<\n>
>>

parser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    bitsets,
    ASTLabelType="CommonTree",
    superClass="Parser",
    labelType="CommonToken",
    members={ <actions.parser.members> }
) ::= <<
<genericParser(inputStreamType="id<TokenStream>", rewriteElementType="Token", ...)>
>>

/** How to generate a tree parser; same as parser except the input
* stream is a different type.

```

```

*/
treeParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    globalAction,
    rules,
    numRules,
    bitsets,
    filterMode,
    labelType={<ASTLabelType>},
    ASTLabelType="CommonTree",
    superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
    members={<actions.treeparser.members>}
) ::= <<
<genericParser(inputStreamType="id\<TreeNodeStream>", rewriteElementType="Node", ...>
>>

/** How to generate a parser */
genericParser( grammar,
    name,
    scopes,
    tokens,
    tokenNames,
    rules,
    numRules,
    cyclicDFAs,    // parser init -- initializes the DFAs
    bitsets,
    labelType,
    ASTLabelType,
    superClass,
    members,
    filterMode,
    rewriteElementType,
    inputStreamType
) ::= <<
<cyclicDFAs:cyclicDFA(>

#pragma mark Bitsets
<bitsets:{it | <bitset(name={FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>>>

#pragma mark Dynamic Global globalAttributeScopeImplementation
<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeImplementation(scope=it)><endif>>>

#pragma mark Dynamic Rule Scopes ruleAttributeScopeImplementation
<rules:{rule |
    <rule.ruleDescriptor:{ ruleDescriptor | <ruleAttributeScopeImplementation(scope=ruleDescriptor.ruleScope)>>>>

```

```

#pragma mark Rule Return Scopes returnScopeImplementation
<rules:{ rule | <rule.ruleDescriptor:{ ruleDescriptor |
<returnScopeImplementation(scope=ruleDescriptor.returnScope)>>>>

@implementation <grammar.recognizerName> // line 637

/* ObjC start of ruleAttributeScope */
#pragma mark Dynamic Rule Scopes ruleAttributeScope
<rules:{ rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScope()>>
/* ObjC end of ruleAttributeScope */
#pragma mark global Attribute Scopes globalAttributeScope
/* ObjC start globalAttributeScope */
<scopes:{ it | <if(it.isDynamicGlobalScope)><globalAttributeScope()><endif>>
/* ObjC end globalAttributeScope */
/* ObjC start actions.(actionScope).synthesize */
<actions.(actionScope).synthesize>
/* ObjC start synthesize() */
<@synthesize()>

+ (void) initialize
{
    #pragma mark Bitsets
    <bitsets:{ it | <bitsetInit(name={ FOLLOW_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>>
    [BaseRecognizer setTokenNames:[AMutableArray arrayWithObjects:@"\<invalid>", @"\<EOR>",
    @"\<DOWN>", @"\<UP>", <tokenNames:{ it | @<it>}; separator=", ", wrap="\n ">, nil] retain]];
    [BaseRecognizer setGrammarFileName:@<fileName>"];
    <synpreds:{ pred | <synpred(pred)>>
}

+ (<grammar.recognizerName> *)new<grammar.recognizerName>:(<inputStreamType>)aStream
{
<if(PARSER)>
    return [[<grammar.recognizerName> alloc] initWithTokenStream:aStream];
<else><#! TREE_PARSER !>
    return [[<grammar.recognizerName> alloc] initWithStream:aStream];
<endif>
}

<if(PARSER)>
- (id) initWithTokenStream:(<inputStreamType>)aStream
{
    self = [super initWithTokenStream:aStream State:[RecognizerSharedState
newRecognizerSharedStateWithRuleLen:<numRules>+1] retain]];
    if ( self != nil ) {
<else><#! TREE_PARSER !>
- (id) initWithStream:(<inputStreamType>)aStream
{

```

```

    self = [super initWithStream:aStream State:[RecognizerSharedState
newRecognizerSharedStateWithRuleLen:<numRules>+1] retain]];
    if ( self != nil ) {
<endif>
        <! <parserCtorBody()> !>
        <cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = [DFA<dfa.decisionNumber>
newDFA<dfa.decisionNumber>WithRecognizer:self];}; separator="\n">
        <scopes:{ it | <if(it.isDynamicGlobalScope)><globalAttributeScopeInit(scope=it)><endif> }>
        <rules:{ rule | <rule.ruleDescriptor.ruleScope:ruleAttributeScopeInit()> }>
        /* start of actions-actionScope-init */
        <actions.(actionScope).init>
        /* start of init */
        <@init()>
    }
    return self;
}

- (void) dealloc
{
    <cyclicDFAs:{ dfa | [dfa<dfa.decisionNumber> release];}; separator="\n">
    <scopes:{ it | <if(it.isDynamicGlobalScope)><globalAttributeScopeDealloc(scope=it)><endif> }>
    <actions.(actionScope).dealloc>
    <@dealloc()>
    [super dealloc];
}

/* ObjC start actions.(actionScope).methods */
<actions.(actionScope).methods>
/* ObjC end actions.(actionScope).methods */
/* ObjC start methods() */
<@methods()>
/* ObjC end methods() */
/* ObjC start rules */
<rules; separator="\n">
/* ObjC end rules */

@end /* end of <grammar.recognizerName> implementation line 692 */<\n>
>>

parserCtorBody() ::= <<
<if(memoize)> /* parserCtorBody */
<if(grammar.grammarIsRoot)>
state.ruleMemo = [[RuleStack newRuleStack:<numRules>+1] retain];<\n> <! index from 1..n !>
<endif>
<endif>
<grammar.delegators:
{g|this.<g.delegateName()> = <g.delegateName()>;}; separator="\n">
>>

```

```

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
// $ANTLR start <ruleName>_fragment
- (void) <ruleName>_fragment
{
    <ruleLabelDefs(>
    <if(trace)>
        [self traceIn:@"<ruleName>_fragment" Index:<ruleDescriptor.index>];
    @try {
        <block>
    }
    @finally {
        [self traceOut:@"<ruleName>_fragment" Index:<ruleDescriptor.index>];
    }
<else>
    <block>
<endif>
} // $ANTLR end <ruleName>_fragment
>>

synpred(name) ::= <<
SEL <name>Selector = @selector(<name>_fragment);
<! // $ANTLR start <name>
- (BOOL) <name>
{
    state.backtracking++;
    <@start(>
    NSInteger start = [input mark];
    @try {
        [self <name>_fragment]; // can never throw exception
    }
    @catch (RecognitionException *re) {
        NSLog(@"impossible: %@\n", re.name);
    }
    BOOL success = (state.failed == NO);
    [input rewind:start];
    <@stop(>
    state.backtracking--;
    state.failed=NO;
    return success;
}

```

```

} // $ANTLR end <name> <\n> !>
>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if ( state.backtracking > 0 && [self alreadyParsedRule:input RuleIndex:<ruleDescriptor.index>] ) { return
<ruleReturnValue()>; }
<endif>
>>

/** How to test for failure and return from rule */
checkRuleBacktrackFailure() ::= <<
<if (backtracking)>if ( state.failed ) return <ruleReturnValue()>;<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if ( state.backtracking > 0 ) { state.failed = YES; return <ruleReturnValue()>; }<\n><endif>
>>

/** How to generate code for a rule.
 * The return type aggregates are declared in the header file (headerFile template)
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<

/*
 * $ANTLR start <ruleName>
 * <fileName>:<description>
 */
- (<returnType()>) <ruleName><ruleDescriptor.parameterScope:parameterScope()>
{
  <if(trace)>[self traceIn:\@" <ruleName>" Index:<ruleDescriptor.index>];<endif>
  <if(trace)>NSLog(@"enter <ruleName> %@ failed=%@ backtracking=%d", [input LT:1],
(state.failed==YES)?@"YES":@"NO", state.backtracking);<endif>
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  <ruleDescriptor.actions.init>
  <@preamble()>
  @try {
    <ruleMemoization(name=ruleName)>
    <ruleLabelDefs()>
    <block>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.after):execAction()>

```

```

    }
<if(exceptions)>
  <exceptions:{ e|<catch(decl=e.decl,action=e.action)><\n}>
<else><if(!emptyRule)><if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  @catch (RecognitionException *re) {
    [self reportError:re];
    [self recover:input Exception:re];
    <@setErrorReturnValue()>
  }<\n>
<endif><endif><endif>
  @finally {
    <if(trace)>[self traceOut:@"<ruleName>" Index:<ruleDescriptor.index>];<endif>
    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
  }
  <@postamble()>
  return <ruleReturnValue()>;
}
/* $ANTLR end <ruleName> */
>>

finalCode(finalBlock) ::= <<
{
  <finalBlock>
}
>>

catch(decl,action) ::= <<
@catch (<e.decl>) {
  <e.action>
}
>>

ruleDeclarations() ::= <<
/* ruleDeclarations */
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType()> retval = [<ruleDescriptor:returnStructName()> new<ruleDescriptor:returnStructName()>];
[retval setStart:[input LT:1]];<\n>
<else>
<ruleDescriptor.returnScope.attributes:{ a |
<a.type> <a.name> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
NSInteger <ruleDescriptor.name>_startIndex = input.index;

```

```

<endif>
>>

ruleScopeSetUp() ::= <<
/* ruleScopeSetUp */
<ruleDescriptor.useScopes:{it | [<it>_stack push:[<it>_Scope new<it>_Scope]];>
<ruleDescriptor.ruleScope:{it | [<it.name>_stack push:[<it.name>_Scope new<it.name>_Scope]];>
>>

ruleScopeCleanUp() ::= <<
/* ruleScopeCleanUp */
<ruleDescriptor.useScopes:{it | [<it>_stack pop];}; separator="\n">
<ruleDescriptor.ruleScope:{it | [<it.name>_stack pop];}; separator="\n">
>>

ruleLabelDefs() ::= <%
/* ruleLabelDefs entry */<"\n">
<[ruleDescriptor.tokenLabels, ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it |<labelType> *<it.label.text> = nil;}; separator="\n"><"\n">
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | AMutableArray *list_<it.label.text> = nil;}; separator="\n"><"\n">
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n"><"\n">
<ruleDescriptor.ruleListLabels:{ll|ParserRuleReturnScope *<ll.label.text> = nil;}; separator="\n"><"\n">
%>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it |<labelType> *<it.label.text>=nil;}; separator="\n"
>
<ruleDescriptor.charLabels:{it |NSInteger <it.label.text>;}; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]:{it |AMutableArray *list_<it.label.text>=nil; }; separator="\n">
>>

ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>

```

```

ruleCleanup() ::= <<
/* token+rule list labels */
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels]:{it |[list_<it.label.text> release];}; separator="\n">
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
[retval setStop:[input LT:-1]];<\n>
<endif><endif>
>>

```

```

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) [self memoize:input RuleIndex:<ruleDescriptor.index>
StartIndex:<ruleDescriptor.name>_StartIndex];
<endif><endif>
>>

```

```

/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/

```

```

lexerRule(ruleName, nakedBlock, ruleDescriptor, block, memoize) ::= <<
// $ANTLR start "<ruleName>"
- (void)
m<ruleName><if(ruleDescriptor.parameterScope)><ruleDescriptor.parameterScope:parameterScope(scope=it)><endif>
{
//<if(trace)>[self traceIn:\@"<ruleName>" Index:<ruleDescriptor.index>];<endif>
<if(trace)>NSLog(@"enter <ruleName> %C line=%d:%d failed=%@ backtracking=%d",
[input LA:1],
self.line,
self.charPositionInLine,
(state.failed==YES) ? @"YES" : @"NO",
state.backtracking);
<endif>
<ruleScopeSetUp()>
<ruleDeclarations()>
@try {
<if(nakedBlock)>
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>
<ruleDescriptor.actions.init>
<block><\n>
<else>
NSInteger _type = <ruleName>;
NSInteger _channel = TokenChannelDefault;
<ruleMemoization(name=ruleName)>
<lexerRuleLabelDefs()>

```

```

    <ruleDescriptor.actions.init>
    <block>
    <ruleCleanUp()>
    state.type = _type;
    state.channel = _channel;
    <(ruleDescriptor.actions.after):execAction()>
<endif>
}
@finally {
    //<if(trace)>[self traceOut:[NSString stringWithFormat:@"<ruleName> %d\n",
<ruleDescriptor.index>]];<endif>
    <if(trace)>NSLog(@"exit <ruleName> %C line=%d:%d failed=%@ backtracking=%d",
        [input LA:1], self.line, self.charPositionInLine,
        (state.failed==YES) ? @"YES" : @"NO", state.backtracking);<endif>
    <ruleScopeCleanUp()>
    <memoize()>
}
return;
}
/* $ANTLR end "<ruleName>" */
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
- (void) mTokens
{
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // block
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>) {
    <alts:{ a | <altSwitchCase(i, a)>}>
}
<@postbranch()>
>>

```

```

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> //ruleblock
NSInteger alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
<decision>
<@postdecision()>
switch (alt<decisionNumber>) {
  <alts:{ a | <altSwitchCase(i, a)>}>
}
>>

```

```

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // ruleBlockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

```

```

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description> // blockSingleAlt
<decls>
<@prealt()>
<alts>
<@postalt()>
>>

```

```

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description> // positiveClosureBlock
NSInteger cnt<decisionNumber> = 0;
<decls>
<@preloop()>
do {
  NSInteger alt<decisionNumber> = <maxAlt>;
  <@predecision()>
  <decision>
  <@postdecision()>
  switch (alt<decisionNumber>) {
    <alts:{ a | <altSwitchCase(i, a)>}>
    default :
      if ( cnt<decisionNumber> >= 1 )
        goto loop<decisionNumber>;
  }
}
>>

```

```

    <ruleBacktrackFailure()>
    EarlyExitException *eee =
        [EarlyExitException newException:input decisionNumber:<decisionNumber>];
    <@earlyExitException()>
    @throw eee;
}
cnt<decisionNumber>++;
} while (YES);
loop<decisionNumber>; ;
<@postloop()>
>>

```

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/\*\* A (..)\* block with 0 or more alternatives \*/

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

<decls>

<@preloop()>

do {

NSInteger alt<decisionNumber>=<maxAlt>;

<@predecision()>

<decision>

<@postdecision()>

switch (alt<decisionNumber>) {

<alts:{a | <altSwitchCase(i, a)>}>

default :

goto loop<decisionNumber>;

}

} while (YES);

loop<decisionNumber>; ;

<@postloop()>

>>

closureBlockSingleAlt ::= closureBlock

/\*\* Optional blocks (x)? are translated to (x|) by before code generation

\* so we can just use the normal block template

\*/

optionalBlock ::= block

optionalBlockSingleAlt ::= block

/\*\* A case in a switch that jumps to an alternative given the alternative

\* number. A DFA predicts the alternative and then a simple switch

\* does the jump to the code that actually matches that alternative.

\*/

altSwitchCase(altNum, alt) ::= <<

```

case <altNum> : ;
  <@prealt(>
  <alt>
  break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description> // alt
{
<@declarations(>
<elements:element(>
<rew>
<@cleanup(>
}
>>

/** What to emit when there is no rewrite. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element(e) ::= << <@prematch(><\n><e.el><\n> >>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label>=<(<labelType> *)<endif>[self match:input TokenType:<token>
Follow:FOLLOW_<token>_in_<ruleName><elementIndex>]; <checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

listLabel(label,elem) ::= <<
if (list_<label> == nil) list_<label> = [[AMutableArray arrayWithCapacity:5] retain];
[list_<label> addObject:<elem>];<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>NSInteger <label> = [input LA:1];<\n><endif>
[self matchChar:<char>]; <checkRuleBacktrackFailure(><\n>

```

>>

```
/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)><label> = [input LA:1];<\n><endif>
[self matchRangeFromChar:<a> to:<b>]; <checkRuleBacktrackFailure()>
>>
```

```
/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,terminalOptions,postmatchCode="") ::= <<
<if(label)>
<if(LEXER)>
<label> = [input LA:1];<\n>
<else>
<label> = (<labelType> *)[input LT:1]; /* matchSet */<\n>
<endif><endif>
if (<s>) {
    [input consume];
    <postmatchCode>
<if(!LEXER)>
    [state setIsErrorRecovery:NO];
<endif>
    <if(backtracking)>state.failed = NO;<\n><endif>
} else {
    <ruleBacktrackFailure()>
    MismatchedSetException *mse = [MismatchedSetException newException:nil stream:input];
    <@mismatchedSetException()>
<if(LEXER)>
<if(label)>
    mse.c = <label>;
<endif>
    [self recover:mse];
    @throw mse;
<else>
    @throw mse;
    <! use following code to make it recover inline; remove throw mse;
    [self recoverFromMismatchedSet:input exception:mse follow:FOLLOW_set_in_<ruleName><elementIndex>]; !>
<endif>
}<\n>
>>
```

```
matchRuleBlockSet ::= matchSet
```

```
matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(elem=label,...)>
>>
```

```

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
NSInteger <label>Start = input.index;
[self matchString:<string>]; <checkRuleBacktrackFailure()>
NSInteger StartLine<elementIndex> = self.line;
NSInteger <label>StartCharPos<elementIndex> = self.charPositionInLine;
<label> = [[<labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault
Start:<label>Start Stop:input.index] retain];
[self setLine:<label>StartLine<elementIndex>];
[self setCharPositionInLine:<label>StartCharPos<elementIndex>];
<else>
[self matchString:<string>]; <checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label> = (<labelType> *)[input LT:1];<\n>
<endif>
[self matchAny:input]; <checkRuleBacktrackFailure()>
>>

```

```

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
NSInteger <label> = [input LA:1];<\n>
<endif>
[self matchAny]; <checkRuleBacktrackFailure()><\n>
>>

```

```

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabel(elem=label,...)>
>>

```

```

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.
*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<

```

```

/* ruleRef */
[self pushFollow:FOLLOW_rule.name_in_ruleName<elementIndex>];
<if(label)><label> = <endif>[self <if(scope)><scope.delegateName().<endif><rule.name><if(args)>:<first(args)>
<rest(args)>: { a | arg<i>:<rest(args)> }; separator=" "><endif>];<\n>
[self popFollow];
<checkRuleBacktrackFailure()><\n>
>>

```

```

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/** A lexer rule reference.

```

```

*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/

```

```

lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
NSInteger <label>Start<elementIndex> = input.index;
[self m<rule.name><if(args)>:<args; separator=":"><endif>]; <checkRuleBacktrackFailure()><\n>
<label> = [[<labelType> newToken:input Type:TokenTypeInvalid Channel:TokenChannelDefault
Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>
[self <if(scope)><scope.delegateName().<endif>m<rule.name><if(args)>:<args; separator=":"><endif>];
<checkRuleBacktrackFailure()><\n>
<endif>
>>

```

```

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabel(elem=label,...)>
>>

```

```

/** EOF in the lexer */

```

```

lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
NSInteger <label>Start<elementIndex> = input.index;
[self matchChar:CharStreamEOF]; <checkRuleBacktrackFailure()><\n>
<labelType> <label> = [[<labelType> newToken:input Type:TokenTypeEOF Channel:TokenChannelDefault
Start:<label>Start<elementIndex> Stop:input.index-1] retain];
<label>.line = self.line;
<else>

```

```

[self matchChar:CharStreamEOF]; <checkRuleBacktrackFailure()><\n>
<endif>
>>

// used for left-recursive rules
recRuleDefArg()          ::= "int <recRuleArg()>"
recRuleArg()             ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"
recRuleSetReturnAction(src,name)  ::= "$<name>=$<src>.<name>;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList, enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if ( [input LA:1] == DOWN ) {
    [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
}
<else>
    [self match:input TokenType:DOWN Follow:nil]; <checkRuleBacktrackFailure()>
    <children:element()>
    [self match:input TokenType:UP Follow:nil]; <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if ( !(<evalPredicate(...)> ) ) {
    <ruleBacktrackFailure()>
    @throw [FailedPredicateException newException:@"<ruleName>" predicate:@"<description>" stream:input];
}
>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];<\n>
<edges; separator="\nelse ">
else {
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>

```

```

    NoViableAltException *nvae = [NoViableAltException newException:<decisionNumber> state:<stateNumber>
stream:input];
    nvae.c = LA<decisionNumber>_<stateNumber>;
    <@noViableAltException()>
    @throw nvae;<\n>
<endif>
}
>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];<\n>
<edges; separator="\nelse ">
>>

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:<k>];
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber>=<eotPredictsAlt>; <! if no edges, don't gen ELSE !>
<else>
else {
    alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif><endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber>=<alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ( (<labelExpr> <if(predicates)>&& (<predicates>)<endif> ) {
    <targetState>

```

```

}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
unichar charLA<decisionNumber> = [input LA:<k>];
switch (charLA<decisionNumber>) {
    <edges; separator="\n"><\n>
default: ;
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>;
<else>
    <ruleBacktrackFailure()>
    NoViableAltException *nvae = [NoViableAltException newException:<decisionNumber> state:<stateNumber>
stream:input];
    nvae.c = charLA<decisionNumber>;
    <@noViableAltException()>
    @throw nvae;<\n>
<endif>
}<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) { // dfaOptionalBlockStateSwitch
    <edges; separator="\n"><\n>
}<\n>
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch ([input LA:<k>]) { // dfaLoopbackStateSwitch
    <edges; separator="\n"><\n>
<if(eotPredictsAlt)>
default:
    alt<decisionNumber> = <eotPredictsAlt>;
    break;<\n>
<endif>
}<\n>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
<labels:{it | case <it>: ;}; separator="\n">
{
    <targetState>
}

```

```

    break;
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<
alt<decisionNumber> = [dfa<decisionNumber> predict:input];
>>

/** Used in headerFile */
cyclicDFAInterface(dfa) ::= <<
#pragma mark Cyclic DFA interface start DFA<dfa.decisionNumber>
@interface DFA<dfa.decisionNumber> : DFA {
}
+ (DFA<dfa.decisionNumber> *) newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer
*)theRecognizer;
- initWithRecognizer:(BaseRecognizer *)recognizer;
@end /* end of DFA<dfa.decisionNumber> interface */<\n>
#pragma mark Cyclic DFA interface end DFA<dfa.decisionNumber><\n>
>>

/** Used in lexer/parser implementation files */
/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */
cyclicDFA(dfa) ::= <<
#pragma mark Cyclic DFA implementation start DFA<dfa.decisionNumber>

@implementation DFA<dfa.decisionNumber>
const static NSInteger dfa<dfa.decisionNumber>_eot[<dfa.numberofStates>] =
    {<dfa.eot; wrap="\n    ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_eof[<dfa.numberofStates>] =
    {<dfa.eof; wrap="\n    ", separator=",", null="-1">};
const static unichar dfa<dfa.decisionNumber>_min[<dfa.numberofStates>] =
    {<dfa.min; wrap="\n    ", separator=",", null="-1">};
const static unichar dfa<dfa.decisionNumber>_max[<dfa.numberofStates>] =
    {<dfa.max; wrap="\n    ", separator=",", null="-1">};
const static NSInteger dfa<dfa.decisionNumber>_accept[<dfa.numberofStates>] =
    {<dfa.accept; wrap="\n    ", separator=",", null="-1">};

```

```

const static NSInteger dfa<dfa.decisionNumber>_special[<dfa.numberofStates>] =
    {<dfa.special; wrap="\n    ", separator=",", null="-1">};

/** Used when there is no transition table entry for a particular state */
#define dfa<dfa.decisionNumber>_T_empty    nil

<dfa.edgeTransitionClassMap.keys:{ table |
const static NSInteger dfa<dfa.decisionNumber>_T<i0>[] =
{
    <table; separator=", ", wrap="\n ", null="-1">
\};
}; null="">

const static NSInteger *dfa<dfa.decisionNumber>_transition[] =
{
    <dfa.transitionEdgeTables:{ whichTable|dfa<dfa.decisionNumber>_T<whichTable>}; separator=", ", wrap="\n",
null="nil">
};

+ (DFA<dfa.decisionNumber> *) newDFA<dfa.decisionNumber>WithRecognizer:(BaseRecognizer *)aRecognizer
{
    return [[[DFA<dfa.decisionNumber> alloc] initWithRecognizer:aRecognizer] retain];
}

- (id) initWithRecognizer:(BaseRecognizer *) theRecognizer
{
    self = [super initWithRecognizer:theRecognizer];
    if ( self != nil ) {
        decisionNumber = <dfa.decisionNumber>;
        eot = dfa<dfa.decisionNumber>_eot;
        eof = dfa<dfa.decisionNumber>_eof;
        min = dfa<dfa.decisionNumber>_min;
        max = dfa<dfa.decisionNumber>_max;
        accept = dfa<dfa.decisionNumber>_accept;
        special = dfa<dfa.decisionNumber>_special;
        transition = dfa<dfa.decisionNumber>_transition;
    }
    return self;
}

<if(dfa.specialStateSTs)>
/* start dfa.specialStateSTs */
- (NSInteger) specialStateTransition:(NSInteger)s Stream:(id<IntStream>)anInput
{
    <if(LEXER)>
        id<IntStream> input = anInput;<\n>
    <endif>
    <if(PARSER)>

```

```

    id<TokenStream\> input = (id<TokenStream\>)anInput;<\n>
<endif>
<if(TREE_PARSER)>
    id<TreeNodeStream\> input = (id<TreeNodeStream\>)anInput;<\n>
<endif>
    switch (s) {
        <dfa.specialStateSTs:{state |
            case <i0> : ;<! compressed special state numbers 0..n-1 !>
                <state>}; separator="\n">
    }
<if(backtracking)>
    if ( [recognizer getBacktrackingLevel] > 0 ) { [recognizer setFailed:YES]; return -1; }<\n>
<endif>
    NoViableAltException *nvae = [NoViableAltException newException:<dfa.decisionNumber> state:s
stream:recognizer.input];
    // nvae.c = s;
    /* [self error:nvae]; */ <! for debugger - do later !>
    @throw nvae;
}<\n>
/* end dfa.specialStateSTs */
<endif>

- (void) dealloc
{
    //free(transition);
    [super dealloc];
}

- (NSString *) description
{
    return @"<dfa.description>";
}

<@errorMethod()>

@end /* end DFA<dfa.decisionNumber> implementation */<\n>
#pragma mark Cyclic DFA implementation end DFA<dfa.decisionNumber>
<\n>
>>
/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber, stateNumber, edges, needErrorClause, semPredState) ::= <<
/* cyclicDFAState */
NSInteger LA<decisionNumber>_<stateNumber> = [input LA:1];<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
NSInteger index<decisionNumber>_<stateNumber> = input.index;
[input rewind];<\n>

```

```

<endif>
s = -1;
<edges; separator="\nelse ">
<if(semPredState)> <! return input cursor to state before we rewound !>
[input seek:index<decisionNumber>_<stateNumber>];<\n>
<endif>
if ( s >= 0 )
    return s;
break;
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
/* cyclicDFAEdge */
if (<labelExpr><if(predicates)> && (<predicates>)<endif>) { s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n> /* eotDFAEdge */
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<operands; separator=\\|\\>"

notPredicate(pred) ::= "!(<evalPredicate(pred, {})>)"

evalPredicate(pred,description) ::= "<pred>"

/*
 * evalSynPredicate(pred,description) ::= "<pred>()"
 *
 * synpreds are broken in cyclic DFA special states
 * Damn! For now, work around with using the selectors directly, and by providing a trampoline evalSynPred
method in
 * DFA
 */
/* evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:<pred>Selector stream:input]" */
evalSynPredicate(pred,description) ::= "[self evaluateSyntacticPredicate:@selector(<pred>_fragment)]"
/* evalSynPredicate(pred,description) ::= "[recognizer <pred>]" */

```

```

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber>==<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "[input LA:<k>] == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<stateNumber> >= <lower> && LA<decisionNumber>_<stateNumber> \<= <upper>)
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(([input LA:<k>] >=
<lower>) && ([input LA:<k>] \<= <upper>))"

setTest(ranges) ::= <%
<ranges; separator="|">
%>

// A T T R I B U T E S

memVars(scope) ::= <% <scope.attributes:{a|<a.type> <a.name>;<\n>}; separator="\n" %>

properties(scope) ::= <%
<scope.attributes:{a|@property (assign, getter=get<a.name>, setter=set<a.name>:) <a.type> <a.name>;<\n>};
separator="\n">
%>

methodsDecl(scope) ::= <%
<scope.attributes:{a| (<a.type>)get<a.name>;<\n>- (void)set<a.name>:(<a.type>)aVal;<\n>}; separator="\n">
%>

synthesize(scope) ::= <% <scope.attributes:{a|@synthesize <a.name>;}; separator="\n" %>

methods(scope) ::= <%
<scope.attributes:{a|
- (<a.type>)get<a.name> { return( <a.name> ); }\<\n>
- (void)set<a.name>:(<a.type>)aVal { <a.name> = aVal; }\<\n>}; separator="\n">
%>

globalAttributeScopeInterface(scope) ::= <%
/* globalAttributeScopeInterface */<\n>
@interface <scope.name>_Scope : SymbolsScope {<\n>
<if(scope.attributes)>
<memVars(scope)>
<endif>
}<\n>
<if(scope.attributes)>
/* start of globalAttributeScopeInterface properties */<\n>

```

```

<properties(scope)>
/* end globalAttributeScopeInterface properties */<\n>
<endif>

+ (<scope.name>_Scope *)new<scope.name>_Scope;<\n>
- (id) init;<\n>
<if(scope.attributes)>
/* start of globalAttributeScopeInterface methodsDecl */<\n>
<methodsDecl(scope)>
/* End of globalAttributeScopeInterface methodsDecl */<\n>
<endif>
@end /* end of <scope.name>_Scope interface */<\n>
%>

globalAttributeScopeMemVar(scope) ::= <%
/* globalAttributeScopeMemVar */<\n>
SymbolStack *<scope.name>_stack;<\n>
<scope.name>_Scope *<scope.name>_scope;<\n>
%>

globalAttributeScopeImplementation(scope) ::= <%
@implementation <scope.name>_Scope /* globalAttributeScopeImplementation */<\n>
<if(scope.attributes)>
/* start of synthesize -- OBJC-Line 1750 */<\n>
<synthesize(scope)><\n>
<endif>
<\n>
+ (<scope.name>_Scope *)new<scope.name>_Scope<\n>
{<\n>
    return [[<scope.name>_Scope alloc] init];<\n>
}<\n>
<\n>
- (id) init<\n>
{<\n>
    self = [super init];<\n>
    return self;<\n>
}<\n>
<\n>
<if(scope.attributes)>
/* start of iterate get and set functions */<\n>
<methods(scope)><\n>
/* End of iterate get and set functions */<\n>
<endif>
@end /* end of <scope.name>_Scope implementation */<\n><\n>
%>

globalAttributeScopeInit(scope) ::= <<
/* globalAttributeScopeInit */<\n>

```

```

<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];<\n>
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];<\n>
>>

globalAttributeScopeDealloc(scope) ::= <% [<scope.name>_stack release];<\n> %>

globalAttributeScope(scope) ::= <%
<if(scope.name)>
static <scope.name>_stack;<\n>
<endif>
%>

ruleAttributeScopeMemVar(scope) ::= <%
/* ObjC ruleAttributeScopeMemVar */<\n>
<if(scope.attributes)>
<scope.name>_Scope *<scope.name>_scope; /* ObjC ruleAttributeScopeMemVar */<\n>
<endif>
%>

ruleAttributeScopeInterface(scope) ::= <%
<if(scope.attributes)>
/* start of ruleAttributeScopeInterface */<\n>
@interface <scope.name>_Scope : SymbolsScope {<\n>
    <memVars(scope)><\n>
}<\n>
<\n>
/* start property declarations */<\n>
<properties(scope)><\n>
/* start method declarations */<\n>
+ (<scope.name>_Scope *)new<scope.name>_Scope;<\n>
- (id) init;<\n>
<methodsDecl(scope)><\n>
@end /* end of ruleAttributeScopeInterface */<\n><\n>
<endif>
%>

ruleAttributeScopeImplementation(scope) ::= <%
<if(scope.attributes)>
@implementation <scope.name>_Scope /* start of ruleAttributeScopeImplementation */<\n>
<synthesize(scope)><\n>
<\n>
+ (<scope.name>_Scope *)new<scope.name>_Scope<\n>
{<\n>
    return [[<scope.name>_Scope alloc] init];<\n>
}<\n>
<\n>
- (id) init<\n>
{<\n>

```

```

    self = [super init];<\n>
    return self;<\n>
}<\n>
<\n>
/* start of <scope.name>_Scope get and set functions */<\n>
<methods(scope)><\n>
/* End of <scope.name>_Scope get and set functions */<\n>
@end /* end of ruleAttributeScopeImplementation */<\n><\n>
<endif>
%>

ruleAttributeScopeInit(scope) ::= <%
/* ruleAttributeScopeInit */<\n>
<scope.name>_scope = [<scope.name>_Scope new<scope.name>_Scope];<\n>
<scope.name>_stack = [SymbolStack newSymbolStackWithLen:30];<\n>
%>

ruleAttributeScopeDealloc(scope) ::= <% [<scope.name>_Scope release];<\n> %>

ruleAttributeScope(scope) ::= <%
<if(scope.attributes)>
/* ruleAttributeScope */<\n>
static SymbolStack *<scope.name>_stack;<\n>
static <scope.name>_Scope *<scope.name>_scope;
<endif>
%>

ruleAttributeScopeDecl(scope) ::= <%
/* ruleAttributeScopeDecl */<\n>
<if(scope.attributes)>
<scope.name>_Scope *<scope.name>_scope;<\n>
<endif>
%>

returnStructName(r) ::= "<className()>_<r.name>_return"

returnType() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasMultipleReturnValues)>
<ruleDescriptor:returnStructName()> *
<else>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnType>
<else>
void
<endif>
<endif>
<endif>
<else>

```

```

void
<endif>
%>

/** Generate the Objective-C type associated with a single or multiple return
 * values.
 */
ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
<className()>_<referencedRule.name>_return *<else>
<if(referencedRule.hasSingleReturnValue)><referencedRule.singleValueType><else>
void<endif>
<endif>
%>

delegateName(d) ::= <% <if(d.label)><d.label><else>g<d.name><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) ::= <% <objcTypeInitMap.(typeName)> %>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
<ruleLabelType(referencedRule=label.referencedRule)> <label.label.text> =
<initValue(typeName=ruleLabelType(referencedRule=label.referencedRule))>;<\n>
%>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScopeInterface(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
/* returnScopeInterface <ruleDescriptor:returnStructName()> */
@interface <ruleDescriptor:returnStructName()> :
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope { /* returnScopeInterface line 1838 */
<@memVars()> /* ObjC start of memVars() */<\n>
<if(scope.attributes)>
<memVars(scope)><\n>
<endif>
}
/* start property declarations */
<@properties()><\n>
<if(scope.attributes)>
<properties(scope)><\n>
<endif>
/* start of method declarations */<\n>

```

```

+ (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()>;
/* this is start of set and get methods */
<@methodsDecl()> /* methodsDecl */<\n>
<if(scope.attributes)>
/* start of iterated get and set functions */<\n>
<methodsDecl(scope)><\n>
<endif>
@end /* end of returnScopeInterface interface */<\n>
<endif>
>>

returnScopeImplementation(scope) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
@implementation <ruleDescriptor:returnStructName()> /* returnScopeImplementation */<\n>
<@synthesize()> /* start of synthesize -- OBJC-Line 1837 */<\n>
<if(scope.attributes)>
  <synthesize(scope)><\n>
<endif>
+ (<ruleDescriptor:returnStructName()> *)new<ruleDescriptor:returnStructName()><\n>
{<\n>
  return [[[<ruleDescriptor:returnStructName()> alloc] init] retain];<\n>
}<\n>
<\n>
- (id) init<\n>
{<\n>
  self = [super init];<\n>
  return self;<\n>
}<\n>
<\n>
<@methods()><\n>
<if(scope.attributes)>
/* start of iterate get and set functions */<\n>
<methods(scope)><\n>
/* End of iterate get and set functions */<\n>
<endif>
<actions.(actionScope).ruleReturnMethods>
<@ruleReturnMembers()><\n>
@end /* end of returnScope implementation */<\n><\n>
<endif>
%>

parameterScope(scope) ::= <<
<! <scope.attributes:{ it | :(<it.type>)<it.name> }; separator=" "> !>
<first(scope.attributes):{ a | :(<a.type>)<a.name> }> <rest(scope.attributes):{ a | arg<i>:(<a.type>)<a.name> };
separator=" ">
>>

parameterAttributeRef(attr) ::= "<attr.name>"

```

```

parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>";

/** Note that the scopeAttributeRef does not have access to the
 * grammar name directly
 */
scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
([((<scope>_Scope *)[<scope>_stack objectAtIndex:[<scope>_stack size]-<negIndex>-1])).<attr.name>
<else>
<if(index)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:<index>]).<attr.name>
<else>
((<scope>_Scope *)[<scope>_stack peek]).<attr.name>
<endif>
<endif>
%>

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
/* scopeSetAttributeRef */
<if(negIndex)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:([<scope>_stack size]-<negIndex>-1])).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:<index>]).<attr.name> = <expr>;
<else>
((<scope>_Scope *)[<scope>_stack peek]).<attr.name> = <expr>;
<endif>
<endif>
%>

scopeAttributeRefStack() ::= <<
/* scopeAttributeRefStack */
<if(negIndex)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:[<scope>_stack count]-<negIndex>-1]).<attr.name> = <expr>;
<else>
<if(index)>
((<scope>_Scope *)[<scope>_stack objectAtIndex:<index>]).<attr.name> = <expr>;
<else>
((<scope>_Scope *)[<scope>_stack peek]).<attr.name> = <expr>;
<endif>
<endif>
>>

/** $x is either global scope or x is rule with dynamic scope; refers
 * to stack itself not top of stack. This is useful for predicates
 * like {<function.size()>0 && <function::name.equals("foo")}?
 */
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"

```

```

/** reference an attribute of rule; might only have single return value */
ruleLabelRef(referencedRule,scope,attr) ::= <<
<if(referencedRule.hasMultipleReturnValues)>
(<scope>!=nil?<scope>.<attr.name>:<initValue(attr.type)>)
<else>
<scope>
<endif>
>>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> /* added to returnAttributeRef */<\n>
<else>
<attr.name><\n>
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> =<expr>; /* added to returnSetAttributeRef */<\n>
<else>
<attr.name> = <expr>;<\n>
<endif>
%>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

/* not sure the next are the right approach; and they are evaluated early; */
/* they cannot see TREE_PARSER or PARSER attributes for example. :( */

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>!=nil?<scope>.text:nil"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>!=nil?<scope>.type:0"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>!=nil?<scope>.line:0"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>!=nil?<scope>.charPositionInLine:0"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>!=nil?<scope>.channel:0"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>!=nil?[<scope> getTokenIndex]:0"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=nil?[<scope>.text integerValue]:0"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=nil?((<labelType> *)<scope>.start):nil"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=nil?((<labelType> *)<scope>.stopToken):nil"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>!=nil?((<ASTLabelType> *)<scope>.tree):nil"

```

```

ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
(<scope>!=nil?[[input getTokenStream] toStringFromStart:[[input getTreeAdaptor] getTokenStartIndex:[<scope>
getStart]]
    ToEnd:[[input getTreeAdaptor] getTokenStopIndex:[<scope> getStart]]]:0)
<else>
(<scope>!=nil?([input toStringFromToken:[<scope> getStart] ToToken:[<scope> getStop]]:0)
<endif>
%>
ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=nil?[<scope> st]:nil"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "<scope>!=nil?<scope>.type:0)"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "<scope>!=nil?<scope>.line:0)"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "<scope>!=nil?<scope>.charPositionInLine:-1)"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "<scope>!=nil?<scope>.channel:0)"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "<scope>!=nil?[<scope> getTokenIndex]:0)"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "<scope>!=nil?<scope>.text:nil)"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "<scope>!=nil?[<scope>.text integerValue]:0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "((<labelType> *)retval.start)"
rulePropertyRef_stop(scope,attr) ::= "((<labelType> *)retval.stopToken)"
rulePropertyRef_tree(scope,attr) ::= "((<ASTLabelType> *)retval.tree)"
rulePropertyRef_text(scope,attr) ::= <<
<if(TREE_PARSER)>
[[input getTokenStream] toStringFromStart:[[input getTreeAdaptor]
getTokenStartIndex:retval.start.token.startIndex]
    ToEnd:[[input getTreeAdaptor] getTokenStopIndex:retval.start.token.stopIndex]]
<else>
[input toStringFromToken:retval.start ToToken:[input LT:-1]]
<endif>
>>
rulePropertyRef_st(scope,attr) ::= "retval.st"

/* hideous: find a way to cut down on the number of templates to support read/write access */
/* TODO: also, which ones are valid to write to? ask Ter */
lexerRuleSetPropertyRef_text(scope,attr,expr) ::= "state.text = <expr>;"
lexerRuleSetPropertyRef_type(scope,attr,expr) ::= "_type"
lexerRuleSetPropertyRef_line(scope,attr,expr) ::= "state.tokenStartLine"
lexerRuleSetPropertyRef_pos(scope,attr,expr) ::= "state.tokenStartCharPositionInLine"
lexerRuleSetPropertyRef_index(scope,attr,expr) ::= "-1" /* undefined token index in lexer */
lexerRuleSetPropertyRef_channel(scope,attr,expr) ::= "state.channel=<expr>;"
lexerRuleSetPropertyRef_start(scope,attr,expr) ::= "state.tokenStartCharIndex"
lexerRuleSetPropertyRef_stop(scope,attr,expr) ::= "(input.index-1)"

```

```

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "state.type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(input.index-1)"
lexerRulePropertyRef_int(scope,attr) ::= "[<scope>.text integerValue]"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.start =<expr>;"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>;" /* "<n>#error StringTemplates are
unsupported<n>" */

/** How to execute an action */
execAction(action) ::= <<
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) {
    <action>
}
<else>
<action>
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
static ANTLRBitSet *<name>;
static const unsigned long long <name>_data[] = { <words64:{it | <it>LL};separator=", ">};<n>
>>

bitsetInit(name, words64) ::= <<
<name> = [[ANTLRBitSet newBitSetWithBits:(const unsigned long long *)<name>_data
Count:(NSUInteger)<length(words64)>] retain];<n>
>>

codeFileExtension() ::= ".m"

true_value() ::= "YES"
false_value() ::= "NO"

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ObjC/ObjC.stg  
No license file was found, but licenses were detected in source scan.

/\*

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Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-

jar/org/antlr/tool/GrammarDanglingStateMessage.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Interval.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-

jar/org/antlr/tool/GrammarUnreachableAltsMessage.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ToolMessage.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarReport.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/CompositeGrammarTree.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/NFAFactory.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/LookaheadSet.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSerializerFoo.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/IntArrayList.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CTarget.java

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/MultiMap.java

- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/AnalysisRecursionOverflowException.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/Perl5Target.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Utils.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/BitSet.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/SemanticContext.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Attribute.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/JavaTarget.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/ACyclicDFACodeGenerator.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/AnalysisTimeoutException.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/NonRegularDecisionMessage.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/RecursionOverflowMessage.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/DFA.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/RandomPhrase.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/PythonTarget.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Message.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/LL1DFA.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFA.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/DFASState.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFAConfiguration.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/OrderedHashSet.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ErrorMessage.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/LL1Analyzer.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSemanticsMessage.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/RuleLabelScope.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/Python3Target.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFAConversionThread.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/MachineProbe.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/Target.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSyntaxMessage.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Rule.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarAST.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/MutableInteger.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSanity.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/IntSet.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/CompositeGrammar.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Strip.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/FASerializer.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarReport2.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/ActionLabel.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Interpreter.java
- \* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-

```

jar/org/antlr/tool/GrammarInsufficientPredicatesMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Graph.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/DecisionProbe.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/GrammarSpelunker.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/analysis/RuleClosureTransition.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/StateCluster.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/LeftRecursionCyclesMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Grammar.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/DOTGenerator.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/ANTLREventListener.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/State.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/analysis/NFAToDFACConverter.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/NameSpaceChecker.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/GrammarAnalysisAbortedMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/Transition.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/IntervalSet.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/PredicateLabel.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/ActionScriptTarget.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CSharp2Target.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/DFAOptimizer.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/analysis/NonLLStarDecisionException.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/misc/Barrier.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/GrammarNonDeterminismMessage.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/AssignTokenTypesBehavior.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/JavaScriptTarget.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/Interp.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/DelphiTarget.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/Label.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/Tool.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFAContext.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/AttributeScope.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/analysis/NFAState.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CppTarget.java
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/tool/BuildDependencyGenerator.java
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```

```

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```

```

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* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
*/
/** Template subgroup to add template rewrite output
* If debugging, then you'll also get STDbg.stg loaded.
*/

@outputFile.imports() ::= <<
<@super.imports()>
using Antlr3.ST;
using Antlr3.ST.Language;
>>

@genericParser.members() ::= <<
<@super.members()>
private StringTemplateGroup _templateGroup = new StringTemplateGroup("<name>Templates",
typeof(AngleBracketTemplateLexer) );

public StringTemplateGroup TemplateGroup
{
get { return _templateGroup; }
set { _templateGroup = value; }
}
>>

```

```

ruleReturnBaseType() ::= <%
Template<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<StringTemplate, <labelType>>
%>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem={<label>.Template},elemType="StringTemplate",...)>
>>

rewriteTemplate(alts) ::= <<

// TEMPLATE REWRITE
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)
{
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
}
<else>
<alts:rewriteTemplateAlt(); separator="else ">
<if(rewriteMode)><replaceTextInLine()><endif>
<endif>
>>

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
((TokenRewriteStream)input.TokenStream).Replace(
input.TreeAdaptor.GetTokenStartIndex(retval.Start),
input.TreeAdaptor.GetTokenStopIndex(retval.Start),
retval.Template);
<else>
((TokenRewriteStream)input).Replace(
retval.Start.TokenIndex,
input.LT(-1).TokenIndex,
retval.Template);
<endif>
>>

rewriteTemplateAlt(it) ::= <<
// <it.description>
<if(it.pred)>
if (<it.pred>)
{
retval.Template = <it.alt>;
}<\n>
<else>

```

```

{
    retval.Template = <it.alt>;
}
<\n>
<endif>
>>

rewriteEmptyTemplate(alts) ::= <<
null;
>>

/** Invoke a template with a set of attribute name/value pairs.
 * Set the value of the rule's template *after* having set
 * the attributes because the rule's template might be used as
 * an attribute to build a bigger template; you get a self-embedded
 * template.
 */
rewriteExternalTemplate(name,args) ::= <%
TemplateGroup.GetInstanceOf("<name>"<optionalArguments(args)>)
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
TemplateGroup.GetInstanceOf(<expr>"<optionalArguments(args)>"
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
new StringTemplate(TemplateGroup, "<template>"<optionalArguments(args)>)
%>

optionalArguments(args) ::= <<
<if(args)>,
    new Dictionary<string, object>() { <args:optionalArgument(); separator=", "> }
<endif>
>>

optionalArgument(it) ::= <<
{"<it.name>", <it.value>}
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>).SetAttribute("<attrName>",<expr>);

```

>>

```
/** Translate %{stringExpr} */  
actionStringConstructor(stringExpr) ::= <<  
new StringTemplate(TemplateGroup,<stringExpr>)  
>>
```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/CSharp3/ST.stg  
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```
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*/
```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/CSharp3Target.java  
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```
/*
```

```
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```

```
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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.
```

```
*/
```

```
/** The API version of the runtime that recognizers generated by this runtime
```

```
* need.
```

```
*/
```

```
apiVersion() ::= "1"
```

```
/** The overall file structure of a recognizer; stores methods for rules
```

```
* and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile(LEXER,PARSER,TREE_PARSER, actionScope, actions,  
           docComment, recognizer,  
           name, tokens, tokenNames, rules, cyclicDFAs,  
           bitsets, buildTemplate, buildAST, rewriteMode, profile,  
           backtracking, synpreds, memoize, numRules,  
           fileName, ANTLRVersion, generatedTimestamp, trace,  
           scopes, superClass, literals) ::=
```

```
<<
```

```
# $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>
```

```
<@imports>
```

```
import sys
```

```

from antlr3 import *
<if(TREE_PARSER)>
from antlr3.tree import *<\n>
<endif>
<@end>

<actions.(actionScope).header>

<! <docComment> !>

# for convenience in actions
HIDDEN = BaseRecognizer.HIDDEN

# token types
<tokens:{it | <it.name>=<it.type>}; separator="\n">

# token names
tokenNamesMap = {
    0: "\<invalid>", 1: "\<EOR>", 2: "\<DOWN>", 3: "\<UP>",
    <tokens:{it | <it.type>: "<it.name>"}; wrap, separator=", ">
}
Token.registerTokenNamesMap(tokenNamesMap)

<recognizer>

<if(actions.(actionScope).main)>
<actions.(actionScope).main>
<else>
def main(argv, stdin=sys.stdin, stdout=sys.stdout, stderr=sys.stderr):
<if(LEXER)>
    from antlr3.main import LexerMain
    main = LexerMain(<recognizer.name>)<\n>
<endif>
<if(PARSER)>
    from antlr3.main import ParserMain
    main = ParserMain("<recognizer.grammar.name>Lexer", <recognizer.name>)<\n>
<endif>
<if(TREE_PARSER)>
    from antlr3.main import WalkerMain
    main = WalkerMain(<recognizer.name>)<\n>
<endif>
    main.stdin = stdin
    main.stdout = stdout
    main.stderr = stderr
    main.execute(argv)<\n>
<endif>

<actions.(actionScope).footer>

```

```

if __name__ == '__main__':
    main(sys.argv)

>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode,
        labelType="CommonToken", superClass="Lexer") ::= <<
<if(grammar.directDelegates)>
# path hack to allow absolute import of related grammars.
from os.path import dirname
__path__ = [dirname(__file__)]
del dirname

<grammar.directDelegates:
{g|from .<g.recognizerName> import <g.recognizerName>; separator="\n">
<endif>

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    <scopes: {it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>>

    grammarFileName = "<fileName>"
    api_version = <apiVersion()>

    def __init__(self<grammar.delegators: {g|, <g:delegateName()>>, input=None, state=None):
        if state is None:
            state = RecognizerSharedState()
            super().__init__(input, state)

<if(memoize)>
<if(grammar.grammarIsRoot)>
    self._state.ruleMemo = {}
<endif>
<endif>

    <grammar.directDelegates:
    {g|self.<g:delegateName()> = <g.recognizerName>(<trunc(g.delegators): {p|<p:delegateName()>, }>self, input,
state)); separator="\n">
    <grammar.directDelegates:
    {g|<g.delegates: {h|self.<h:delegateName()> = self.<g:delegateName()>.<h:delegateName()>};
separator="\n">}; separator="\n">
    <grammar.delegators:
    {g|self.<g:delegateName()> = <g:delegateName()>}; separator="\n">
    <last(grammar.delegators):
    {g|self.gParent = <g:delegateName()>}; separator="\n">
    self.delegates = [<grammar.delegates: {g|self.<g:delegateName()>}; separator = ", ">]

    <cyclicDFAs: {dfa | <cyclicDFAInit(dfa)>}; separator="\n">

```

```

    <actions.lexer.init>

    <actions.lexer.members>

<if(filterMode)>
    <filteringNextToken()>
<endif>
    <rules; separator="\n\n">

    <synpreds:{p | <lexerSynpred(p)>}>

    <cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
def nextToken(self):
    while True:
        if self.input.LA(1) == EOF:
            return self.makeEOFToken()

        self._state.token = None
        self._state.channel = DEFAULT_CHANNEL
        self._state.tokenStartCharIndex = self.input.index()
        self._state.tokenStartCharPositionInLine = self.input.charPositionInLine
        self._state.tokenStartLine = self.input.line
        self._state._text = None
        try:
            m = self.input.mark()
            try:
                # means we won't throw slow exception
                self._state.backtracking = 1
                try:
                    self.mTokens()
                finally:
                    self._state.backtracking = 0
            except BacktrackingFailed:

```

```

        # mTokens backtracks with synpred at backtracking==2
        # and we set the synpredgate to allow actions at level 1.
        self.input.rewind(m)
        self.input.consume() # advance one char and try again

    else:
        self.emit()
        return self._state.token

    except RecognitionException as re:
        # shouldn't happen in backtracking mode, but...
        self.reportError(re)
        self.recover(re)

def memoize(self, input, ruleIndex, ruleStartIndex, success):
    if self._state.backtracking > 1:
        # is Lexer always superclass?
        super().memoize(input, ruleIndex, ruleStartIndex, success)

def alreadyParsedRule(self, input, ruleIndex):
    if self._state.backtracking > 1:
        return super().alreadyParsedRule(input, ruleIndex)
    return False

>>

actionGate() ::= "self._state.backtracking == 0"

filteringActionGate() ::= "self._state.backtracking == 1"

/** How to generate a parser */

genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
              bitsets, inputStreamType, superClass, labelType, members,
              rewriteElementType, filterMode, init, ASTLabelType="Object") ::= <<
# token names
tokenNames = [
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>",
    <tokenNames; wrap, separator=", ">
]

<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScopeClass(scope=it)><endif>>>

<if(grammar.directDelegates)>
# path hack to allow absolute import of related grammars.

```

```

from os.path import dirname
__path__ = [dirname(__file__)]
del dirname

<grammar.directDelegates:
{g|from .<g.recognizerName> import <g.recognizerName>; separator="\n">
<endif>

<rules:{it|<ruleAttributeScopeClass(scope=it.ruleDescriptor.ruleScope)>}>

class <grammar.recognizerName>(<@superClassName><superClass><@end>):
    grammarFileName = "<fileName>"
    api_version = <apiVersion()>
    tokenNames = tokenNames

    def __init__(self<grammar.delegators:{g|, <g.delegateName()>}>, input, state=None, *args, **kwargs):
        if state is None:
            state = RecognizerSharedState()

        <@args()>
        super().__init__(input, state, *args, **kwargs)

<if(memoize)>
<if(grammar.grammarIsRoot)>
    self._state.ruleMemo = {}
<endif>
<endif>

<cyclicDFAs:{dfa | <cyclicDFAInit(dfa)>}; separator="\n">

<scopes:{it | <if(it.isDynamicGlobalScope)><globalAttributeScopeStack(scope=it)><endif>}>
<rules:{it | <ruleAttributeScopeStack(scope=it.ruleDescriptor.ruleScope)>}>

<init>

<grammar.delegators:
{g|self.<g.delegateName()> = <g.delegateName()>; separator="\n">
<grammar.directDelegates:
{g|self.<g.delegateName()> = <g.recognizerName>(<trunc(g.delegators):{p|<p.delegateName()>, }>self, input,
state)); separator="\n">
<grammar.directDelegates:
{g|<g.delegates:{h|self.<h.delegateName()> = self.<g.delegateName()>.<h.delegateName()>};
separator="\n">}; separator="\n">
<last(grammar.delegators):
{g|self.gParent = self.<g.delegateName()>; separator="\n">
self.delegates = [<grammar.delegates: {g|self.<g.delegateName()>}; separator = ", ">]

<@init><@end>

```

```

<@members><@end>

<members>

<rules; separator="\n\n">

<! generate rule/method definitions for imported rules so they
  appear to be defined in this recognizer. !>
<grammar.delegatedRules:{ruleDescriptor| <delegateRule(ruleDescriptor)> }; separator="\n">

<synpreds:{p | <synpred(p)>>

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>

  <bitsets:{it | FOLLOW_<it.name>_in_<it.inName><it.tokenIndex> = frozenset([<it.tokenTypes:{it |
<it>};separator=", ">])<\n>>

>>

delegateRule(ruleDescriptor) ::= <<
def <ruleDescriptor.name>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<\> <if(ruleDescriptor.hasReturnValue)>return
<endif>self.<ruleDescriptor.grammar:delegateName()>.<ruleDescriptor.name><(if(ruleDescriptor.parameterScope)
><ruleDescriptor.parameterScope.attributes:{a|<a.name>}; separator=", "><endif>)

>>

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
  ASTLabelType="Object", superClass="Parser", labelType="Token",
  members={<actions.parser.members>},
  init={<actions.parser.init>}
) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
  bitsets, "TokenStream", superClass,
  labelType, members, "Token",
  false, init, ASTLabelType)>

>>

/** How to generate a tree parser; same as parser except the input
 * stream is a different type.
 */
treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
  numRules, bitsets, filterMode, labelType={<ASTLabelType>}, ASTLabelType="Object",
superClass={<if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif>},
  members={<actions.treeparser.members>},

```

```

    init={<actions.treeparser.init>}
  ) ::= <<
<genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
    bitsets, "TreeNodeStream", superClass,
    labelType, members, "Node",
    filterMode, init, ASTLabelType)>
>>

/** A simpler version of a rule template that is specific to the imaginary
 * rules created for syntactic predicates. As they never have return values
 * nor parameters etc..., just give simplest possible method. Don't do
 * any of the normal memoization stuff in here either; it's a waste.
 * As predicates cannot be inlined into the invoking rule, they need to
 * be in a rule by themselves.
 */
synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=
<<
# $ANTLR start "<ruleName>"
def <ruleName>_fragment(self, <ruleDescriptor.parameterScope:parameterScope(>):
    <ruleLabelDefs(>
<if(trace)>
    self.traceIn("<ruleName>_fragment", <ruleDescriptor.index>)
    try:
        <block>

    finally:
        self.traceOut("<ruleName>_fragment", <ruleDescriptor.index>)

<else>
    <block>
<endif>
# $ANTLR end "<ruleName>"

>>

synpred(name) ::= <<
def <name>(self):
    self._state.backtracking += 1
    <@start(>
    start = self.input.mark()
    try:
        self.<name>_fragment()
    except BacktrackingFailed:
        success = False
    else:
        success = True
    self.input.rewind(start)

```

```

    <@stop()>
    self._state.backtracking -= 1
    return success

>>

lexerSynpred(name) ::= <<
<synpred(name)>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if self._state.backtracking > 0 and self.alreadyParsedRule(self.input, <ruleDescriptor.index>):
    # for cached failed rules, alreadyParsedRule will raise an exception
    success = True
    return <ruleReturnValue()>

<endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>
if self._state.backtracking > 0:
    raise BacktrackingFailed

<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<returnScope(scope=ruleDescriptor.returnScope)>

# $ANTLR start "<ruleName>"
# <fileName>:<description>
<ruleDescriptor.actions.decorate>
def <ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
    <ruleLabelDefs()>
    <ruleDescriptor.actions.init>
    <@preamble()>

```

```

<@body><ruleBody()><@end>
<@postamble()>
return <ruleReturnValue()>

# $ANTLR end "<ruleName>"
>>

ruleBody() ::= <<
<if(memoize)>
<if(backtracking)>
success = False<\n>
<endif>
<endif>
try:
  try:
    <ruleMemoization(name=ruleName)>
    <block>
    <ruleCleanUp()>
    <(ruleDescriptor.actions.after):execAction()>

<if(memoize)>
<if(backtracking)>
  success = True<\n>
<endif>
<endif>
<if(exceptions)>
  <exceptions:{e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
  <actions.(actionScope).rulecatch>
<else>
  except RecognitionException as re:
    self.reportError(re)
    self.recover(self.input, re)
  <@setErrorReturnValue()>

<endif>
<else>
  finally:
    pass

<endif>
<endif>
finally:
<if(trace)>
  self.traceOut("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>

```

```

    <memoize()>
    <ruleScopeCleanUp()>
    <finally>
    pass
>>

catch(decl,action) ::= <<
except <e.decl>:
    <e.action>

>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
retval = self.<ruleDescriptor.name>_return()
retval.start = self.input.LT(1)<\n>
<elseif(ruleDescriptor.returnScope)>
<ruleDescriptor.returnScope.attributes: { a |
<a.name> = <if(a.initValue)><a.initValue><else>None<endif>
}>
<endif>
<if(memoize)>
<ruleDescriptor.name>_startIndex = self.input.index()
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: {it | self.<it>_stack.append(<it>_scope()); separator="\n">
<ruleDescriptor.ruleScope: {it | self.<it.name>_stack.append(<it.name>_scope()); separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: {it | self.<it>_stack.pop(); separator="\n">
<ruleDescriptor.ruleScope: {it | self.<it.name>_stack.pop(); separator="\n">
>>

ruleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,
ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]
: {it | <it.label.text> = None }; separator="\n"
>
<[ruleDescriptor.tokenListLabels,ruleDescriptor.ruleListLabels,
ruleDescriptor.wildcardTreeListLabels]
: {it | list_<it.label.text> = None }; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels: {it | <it.label.text> = None }; separator="\n">
>>

```

```
lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it | <it.label.text> = None }; separator="\n"
>
<ruleDescriptor.charLabels: {it | <it.label.text> = None }; separator="\n">
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it | list_<it.label.text> = None }; separator="\n"
>
>>
```

```
ruleReturnValue() ::= <%
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<ruleDescriptor.singleValueReturnName>
<else>
retval
<endif>
<endif>
<endif>
%>
```

```
ruleCleanup() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>
retval.stop = self.input.LT(-1)<\n>
<endif>
<endif>
>>
```

```
memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if self._state.backtracking > 0:
self.memoize(self.input, <ruleDescriptor.index>, <ruleDescriptor.name>_StartIndex, success)
<endif>
<endif>
>>
```

```
/** How to generate a rule in the lexer; naked blocks are used for
* fragment rules.
*/
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<
```

```

# $ANTLR start "<ruleName>"
def m<ruleName>(self, <ruleDescriptor.parameterScope:parameterScope()>):
<if(trace)>
    self.traceIn("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
    <ruleScopeSetUp()>
    <ruleDeclarations()>
<if(memoize)>
<if(backtracking)>
    success = False<\n>
<endif>
<endif>
    try:
<if(nakedBlock)>
        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block><\n>
<else>
        _type = <ruleName>
        _channel = DEFAULT_CHANNEL

        <ruleMemoization(name=ruleName)>
        <lexerRuleLabelDefs()>
        <ruleDescriptor.actions.init>
        <block>
        <ruleCleanUp()>
        self._state.type = _type
        self._state.channel = _channel
        <(ruleDescriptor.actions.after):execAction()>
<endif>
<if(memoize)>
<if(backtracking)>
    success = True<\n>
<endif>
<endif>

    finally:
<if(trace)>
    self.traceOut("<ruleName>", <ruleDescriptor.index>)<\n>
<endif>
    <ruleScopeCleanUp()>
    <memoize()>
    pass

# $ANTLR end "<ruleName>"

```

```

>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<
def mTokens(self):
  <block><\n>

>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@body><blockBody()><@end>
>>

blockBody() ::= <<
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<@prebranch()>
<alts:{ a | <altSwitchCase(i, a)> }; separator="\nel">
<@postbranch()>
>>

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
# <fileName>:<description>
alt<decisionNumber> = <maxAlt>
<decls>
<@predecision()>
<@decision><decision><@end>
<@postdecision()>
<alts:{ a | <altSwitchCase(i, a)> }; separator="\nel">
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
# <fileName>:<description>
<decls>
<@prealt()>
<alts>
<@postalt()>

```

>>

/\*\* A special case of a (...) subrule with a single alternative \*/

blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<

# <fileName>:<description>

<decls>

<@prealt()>

<alts>

<@postalt()>

>>

/\*\* A (..)+ block with 1 or more alternatives \*/

positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<

# <fileName>:<description>

cnt<decisionNumber> = 0

<decls>

<@preloop()>

<@loopBody>

<positiveClosureBlockLoop()>

<@end>

<@postloop()>

>>

positiveClosureBlockLoop() ::= <<

while True: #loop<decisionNumber>

  alt<decisionNumber> = <maxAlt>

  <@predecision()>

  <@decisionBody><decision><@end>

  <@postdecision()>

  <alts: { a | <altSwitchCase(i, a)> }; separator="\n" >

  else:

    if cnt<decisionNumber> >= 1:

      break #loop<decisionNumber>

  <ruleBacktrackFailure()>

  eee = EarlyExitException(<decisionNumber>, self.input)

  <@earlyExitException()>

  raise eee

  cnt<decisionNumber> += 1

>>

positiveClosureBlockSingleAlt ::= positiveClosureBlock

/\*\* A (..)\* block with 1 or more alternatives \*/

closureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::=

<<

```

# <fileName>:<description>
<decls>
<@preloop()>
<@loopBody>
<closureBlockLoop()>
<@end>
<@postloop()>
>>

```

```

closureBlockLoop() ::= <<
while True: #loop<decisionNumber>
  alt<decisionNumber> = <maxAlt>
  <@predecision()>
  <@decisionBody><decision><@end>
  <@postdecision()>
  <alts:{a | <altSwitchCase(i, a)>} ; separator="\nel">
  else:
    break #loop<decisionNumber>
>>

```

```

closureBlockSingleAlt ::= closureBlock

```

```

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */

```

```

optionalBlock ::= block

```

```

optionalBlockSingleAlt ::= block

```

```

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */

```

```

altSwitchCase(altNum,alt) ::= <<
if alt<decisionNumber> == <altNum>:
  <@prealt()>
  <alt>
>>

```

```

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt, treeLevel,rew) ::= <<
# <fileName>:<description>
pass <! so empty alternatives are a valid block !>
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
>>

```

```

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

/** Dump the elements one per line */
element(e) ::= <<
<@prematch(>
<e.el><\n>
>>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<if(label)><label> = <endif>self.match(self.input, <token>,
self.FOLLOW_<token>_in_<ruleName><elementIndex>)
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(token,label,elementIndex,terminalOptions)>
<listLabel(label, label)>
>>

listLabel(label, elem) ::= <<
if list_<label> is None:
    list_<label> = []
list_<label>.append(<elem>)<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.match(<char>)
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchRange(<a>, <b>)
>>

```

```

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,elementIndex,postmatchCode="",terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
if <s>:
    self.input.consume()
    <postmatchCode>
<if(!LEXER)>
    self._state.errorRecovery = False<\n>
<endif>

else:
    <ruleBacktrackFailure()>
    mse = MismatchedSetException(None, self.input)
    <@mismatchedSetException()>
<if(LEXER)>
    self.recover(mse)
    raise mse
<else>
    raise mse
    <! use following code to make it recover inline; remove throw mse;
    self.recoverFromMismatchedSet(
        self.input, mse, self.FOLLOW_set_in_<ruleName><elementIndex>
    )
    !>
<endif>
<\n>
>>

matchRuleBlockSet ::= matchSet

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>
<listLabel(label, label)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex="0") ::= <<
<if(label)>
<label>Start = self.getCharIndex()
self.match(<string>)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(input=self.input, type=INVALID_TOKEN_TYPE, channel=DEFAULT_CHANNEL,
start=<label>Start, stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>

```

```

<else>
self.match(<string>)
<endif>
>>

wildcard(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
self.matchAny()
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<wildcard(...)>
<listLabel(label,label)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = self.input.LA(1)<\n>
<endif>
self.matchAny()
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(label, elementIndex)>
<listLabel(label, label)>
>>

/** Match a rule reference by invoking it possibly with arguments
 * and a return value or values. The 'rule' argument was the
 * target rule name, but now is type Rule, whose toString is
 * same: the rule name. Now though you can access full rule
 * descriptor stuff.
 */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
self._state.following.append(self.FOLLOW_<rule.name>_in_<ruleName><elementIndex>)
<if(label)><label> = <endif>self.<if(scope)><scope.delegateName()>.<endif><rule.name>(<args; separator=",
">)<\n>
self._state.following.pop()
>>

/** ids+=rule */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(rule,label,elementIndex,args,scope)>
<listLabel(label, label)>
>>

```

```

/** A lexer rule reference
 * The 'rule' argument was the target rule name, but now
 * is type Rule, whose toString is same: the rule name.
 * Now though you can access full rule descriptor stuff.
 */
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
self.<if(scope)><scope.delegateName().<endif>m<rule.name>(<args; separator=", ">)
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
<label> = <labelType>(
  input=self.input,
  type=INVALID_TOKEN_TYPE,
  channel=DEFAULT_CHANNEL,
  start=<label>Start<elementIndex>,
  stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.<if(scope)><scope.delegateName().<endif>m<rule.name>(<args; separator=", ">)
<endif>
>>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(rule,label,args,elementIndex,scope)>
<listLabel(label, label)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <<
<if(label)>
<label>Start<elementIndex> = self.getCharIndex()
<label>StartLine<elementIndex> = self.getLine()
<label>StartCharPos<elementIndex> = self.getCharPositionInLine()
self.match(EOF)
<label> = <labelType>(input=self.input, type=EOF, channel=DEFAULT_CHANNEL,
start=<label>Start<elementIndex>, stop=self.getCharIndex()-1)
<label>.line = <label>StartLine<elementIndex>
<label>.charPositionInLine = <label>StartCharPos<elementIndex>
<else>
self.match(EOF)
<endif>
>>

// used for left-recursive rules

```

```

recRuleDefArg()          ::= "<recRuleArg()>"
recRuleArg()            ::= "_p"
recRuleAltPredicate(ruleName, opPrec) ::= "<recRuleArg()> |<= <opPrec>"
recRuleSetResultAction() ::= "root_0 = $<ruleName>_primary.tree"
recRuleSetReturnAction(src, name)  ::= "$<name> = $<src>.<name>"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
    enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)

<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
 * also hoisted into a prediction expression).
 */
validateSemanticPredicate(pred,description) ::= <<
if not (<evalPredicate(pred, description)>):
    <ruleBacktrackFailure()>
    raise FailedPredicateException(self.input, "<ruleName>", "<description>")

>>

// F i x e d D F A (if-then-else)

dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" >
else:
<if(eotPredictsAlt)>
    alt<decisionNumber> = <eotPredictsAlt>
<else>
    <ruleBacktrackFailure()>
    nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
    <@noViableAltException()>
    raise nvae<\n>
<endif>

```

```

>>

/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" >
>>

```

```

/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a)* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = self.input.LA(<k>)<\n>
<edges; separator="\n" ><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt> <! if no edges, don't gen ELSE !>
<else>
else:
  alt<decisionNumber> = <eotPredictsAlt>
<\n>
<endif>
<endif>
>>

```

```

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>"

```

```

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if (<labelExpr>) <if(predicates)>and (<predicates>)<endif>:
  <targetState>
>>

```

```

// F i x e d D F A (switch case)

```

```

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().

```

```

*/
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
<!
  FIXME: this is one of the few occasion, where I miss a switch statement
  in Python. ATM this is implemented as a list of if .. elif ..
  This may be replaced by faster a dictionary lookup, when I find a solution
  for the cases when an edge is not a plain dfaAcceptState.
!>
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
else:
<if(eotPredictsAlt)>
  alt<decisionNumber> = <eotPredictsAlt>
<else>
  <ruleBacktrackFailure()>
  nvae = NoViableAltException("<description>", <decisionNumber>, <stateNumber>, self.input)<\n>
  <@noViableAltException()>
  raise nvae<\n>
<endif>

>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
LA<decisionNumber> = self.input.LA(<k>)
<edges; separator="\n">
<if(eotPredictsAlt)>
else:
  alt<decisionNumber> = <eotPredictsAlt>
<endif>
>>

dfaEdgeSwitch(labels, targetState) ::= <<
if LA<decisionNumber> in {<labels; separator=",">}:
  <targetState>
>>

// C y c l i c D F A

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */
dfaDecision(decisionNumber,description) ::= <<

```

```

alt<decisionNumber> = self.dfa<decisionNumber>.predict(self.input)
>>

/* Dump DFA tables as run-length-encoded Strings of octal values.
* Can't use hex as compiler translates them before compilation.
* These strings are split into multiple, concatenated strings.
* Java puts them back together at compile time thankfully.
* Java cannot handle large static arrays, so we're stuck with this
* encode/decode approach. See analysis and runtime DFA for
* the encoding methods.
*/
cyclicDFA(dfa) ::= <<
# lookup tables for DFA #<dfa.decisionNumber>

DFA<dfa.decisionNumber>_eot = DFA.unpack(
    "<dfa.javaCompressedEOT; wrap=\"\\n \\\">"
)

DFA<dfa.decisionNumber>_eof = DFA.unpack(
    "<dfa.javaCompressedEOF; wrap=\"\\n \\\">"
)

DFA<dfa.decisionNumber>_min = DFA.unpack(
    "<dfa.javaCompressedMin; wrap=\"\\n \\\">"
)

DFA<dfa.decisionNumber>_max = DFA.unpack(
    "<dfa.javaCompressedMax; wrap=\"\\n \\\">"
)

DFA<dfa.decisionNumber>_accept = DFA.unpack(
    "<dfa.javaCompressedAccept; wrap=\"\\n \\\">"
)

DFA<dfa.decisionNumber>_special = DFA.unpack(
    "<dfa.javaCompressedSpecial; wrap=\"\\n \\\">"
)

DFA<dfa.decisionNumber>_transition = [
    <dfa.javaCompressedTransition:{s|DFA.unpack("<s; wrap=\"\\n\\\">"); separator=",\n">
}
]

# class definition for DFA #<dfa.decisionNumber>

class DFA<dfa.decisionNumber>(DFA):
    pass

```

```

<@errorMethod()>

<if(dfa.specialStateSTs)>
def specialStateTransition(self_, s, input):
    # convince pylint that my self_ magic is ok ;)
    # pylint: disable-msg=E0213

    # pretend we are a member of the recognizer
    # thus semantic predicates can be evaluated
    self = self_.recognizer

    _s = s

    <dfa.specialStateSTs:{state | if s == <i0>: <! compressed special state numbers 0..n-1 !>
<state>} ; separator="\nел">

<if(backtracking)>
    if self._state.backtracking > 0:
        raise BacktrackingFailed

<endif>
    nvae = NoViableAltException(self_.getDescription(), <dfa.decisionNumber>, _s, input)
    self_.error(nvae)
    raise nvae<\n>
<endif>

>>

cyclicDFAInit(dfa) ::= <<
self.dfa<dfa.decisionNumber> = self.DFA<dfa.decisionNumber>(
    self, <dfa.decisionNumber>,
    eot = self.DFA<dfa.decisionNumber>_eot,
    eof = self.DFA<dfa.decisionNumber>_eof,
    min = self.DFA<dfa.decisionNumber>_min,
    max = self.DFA<dfa.decisionNumber>_max,
    accept = self.DFA<dfa.decisionNumber>_accept,
    special = self.DFA<dfa.decisionNumber>_special,
    transition = self.DFA<dfa.decisionNumber>_transition
)<\n>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
LA<decisionNumber>_<stateNumber> = input.LA(1)<\n>
<if(semPredState)> <! get next lookahead symbol to test edges, then rewind !>
index<decisionNumber>_<stateNumber> = input.index()

```

```

input.rewind()<\n>
<endif>
s = -1
<edges; separator="\n">
<if(semPredState)> <! return input cursor to state before we rewound !>
input.seek(index<decisionNumber>_<stateNumber>)<\n>
<endif>
if s >= 0:
    return s
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if (<labelExpr>)<if(predicates)> and (<predicates>)<endif>:
    s = <targetStateNumber><\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
se:
    s = <targetStateNumber><\n>
>>

// D F A E X P R E S S I O N S

andPredicates(left,right) ::= "((<left>) and (<right>))"

orPredicates(operands) ::= "<operands; separator=\" or \">"

notPredicate(pred) ::= "not (<evalPredicate(pred, { })>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "self.<pred>()"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<stateNumber> == <atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "self.input.LA(<k>) == <atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%

```

```

(<lower> \<= LA<decisionNumber>_<stateNumber> \<= <upper>)
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= "(<lower> \<=
self.input.LA(<k>) \<= <upper>)"

lookaheadSetTest(values,k,valuesAsInt) ::= <%
LA<decisionNumber>_<stateNumber> in {<values; separator="," ">}
%>

isolatedLookaheadSetTest(values,k,valuesAsInt) ::= <%
self.input.LA(<k>) in {<values; separator="," ">}
%>

lookaheadVarName(k) ::= "LA<decisionNumber>_<stateNumber>"
isolatedLookaheadVarName(k) ::= "self.input.LA(<k>)"

setTest(ranges) ::= "<ranges; separator=\" or \">"

// A T T R I B U T E S

globalAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

<endif>
<endif>
>>

globalAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
<endif>
>>

ruleAttributeScopeClass(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
class <scope.name>_scope(object):
    def __init__(self):
        <scope.attributes:{it | self.<it.decl> = None}; separator="\n">

<endif>

```

```

<endif>
>>

ruleAttributeScopeStack(scope) ::= <<
<if(scope)>
<if(scope.attributes)>
self.<scope.name>_stack = []<\n>
<endif>
<endif>
>>

delegateName(d) ::= <<
<if(d.label)><d.label><else>g<d.name><endif>
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <<
<label.label.text> = None
>>

returnStructName(r) ::= "<r.name>_return"

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
class <ruleDescriptor:returnStructName()>(<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope):
    def __init__(self):
        super().__init__()

        <if(scope)><scope.attributes:{it | self.<it.decl> = None }; separator="\n"><endif>
        <@ruleReturnInit()>

        <@ruleReturnMembers()>

<endif>
>>

parameterScope(scope) ::= <<
<if(scope)><scope.attributes:{it | <it.decl>}; separator=", "><endif>
>>

parameterAttributeRef(attr) ::= "<attr.name>"
parameterSetAttributeRef(attr,expr) ::= "<attr.name> = <expr>"

```

```

scopeAttributeRef(scope,attr,index,negIndex) ::= <%
<if(negIndex)>
self.<scope>_stack[-<negIndex>].<attr.name>
<else>
<if(index)>
self.<scope>_stack[<index>].<attr.name>
<else>
self.<scope>_stack[-1].<attr.name>
<endif>
<endif>
%>

```

/\* not applying patch because of bug in action parser!

```

<if(negIndex)>
((len(self.<scope>_stack) - <negIndex> - 1) >= 0 and [self.<scope>_stack[-<negIndex>].<attr.name>] or [None])[0]
<else>
<if(index)>
((<index> \< len(self.<scope>_stack)) and [self.<scope>_stack[<index>].<attr.name>] or [None])[0]
<else>
((len(self.<scope>_stack) > 0) and [self.<scope>_stack[-1].<attr.name>] or [None])[0]
<endif>
<endif>

```

\*/

```

scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%
<if(negIndex)>
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[-<negIndex>].<attr.name> = <expr>
<else>
<if(index)>
<!FIXME: this seems not to be used by ActionTranslator...!>
self.<scope>_stack[<index>].<attr.name> = <expr>
<else>
self.<scope>_stack[-1].<attr.name> = <expr>
<endif>
<endif>
%>

```

```

/** $x is either global scope or x is rule with dynamic scope; refers
* to stack itself not top of stack. This is useful for predicates
* like {$function.size()>0 && $function::name.equals("foo")}?
*/

```

```

isolatedDynamicScopeRef(scope) ::= "self.<scope>_stack"

```

```

/** reference an attribute of rule; might only have single return value */

```

```

ruleLabelRef(referencedRule,scope,attr) ::= <%

```

```

<if(referencedRule.hasMultipleReturnValues)>
((<scope> is not None) and [<scope>.<attr.name>] or [None])[0]
<else>
<scope>
<endif>
%>

returnAttributeRef(ruleDescriptor,attr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name>
<else>
<attr.name>
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name> = <expr>
<else>
<attr.name> = <expr>
<endif>
%>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach; and they are evaluated early;
// they cannot see TREE_PARSER or PARSER attributes for example. :(

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>.text"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>.type"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>.line"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>.charPositionInLine"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>.channel"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>.index"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>.start"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>.stop"
ruleLabelPropertyRef_tree(scope,attr) ::= "<scope>.tree"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
((<scope> is not None) and [self.input.getTokenStream().toString(
self.input.getTreeAdaptor().getTokenStartIndex(<scope>.start),

```

```

    self.input.getTreeAdaptor().getTokenStopIndex(<scope>.start
    ]) or [None])[0]
<else>
((<scope> is not None) and [self.input.toString(<scope>.start,<scope>.stop)] or [None])[0]
<endif>
%>
ruleLabelPropertyRef_st(scope,attr) ::= "((<scope> is not None) and [<scope>.st] or [None])[0]"

/** Isolated $RULE ref ok in lexer as it's a Token */
lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::= "((<scope> is not None) and [<scope>.type] or [0])[0]"
lexerRuleLabelPropertyRef_line(scope,attr) ::= "((<scope> is not None) and [<scope>.line] or [0])[0]"
lexerRuleLabelPropertyRef_pos(scope,attr) ::= "((<scope> is not None) and [<scope>.charPositionInLine] or
[0])[0]"
lexerRuleLabelPropertyRef_channel(scope,attr) ::= "((<scope> is not None) and [<scope>.channel] or [0])[0]"
lexerRuleLabelPropertyRef_index(scope,attr) ::= "((<scope> is not None) and [<scope>.index] or [0])[0]"
lexerRuleLabelPropertyRef_text(scope,attr) ::= "((<scope> is not None) and [<scope>.text] or [None])[0]"
lexerRuleLabelPropertyRef_int(scope,attr) ::= "((<scope> is not None) and [int(<scope>.text)] or [0])[0]"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.start"
rulePropertyRef_stop(scope,attr) ::= "retval.stop" //mmm... or input.LT(-1)??
rulePropertyRef_tree(scope,attr) ::= "retval.tree"
rulePropertyRef_text(scope,attr) ::= "self.input.toString(retval.start, self.input.LT(-1))"
rulePropertyRef_st(scope,attr) ::= "retval.st"

lexerRulePropertyRef_text(scope,attr) ::= "self.text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "self._state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "self._state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "self._state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(self.getCharIndex()-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int(<scope>.text)"

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
ruleSetPropertyRef_tree(scope,attr,expr) ::= "retval.tree =<expr>"
ruleSetPropertyRef_st(scope,attr,expr) ::= "retval.st =<expr>"

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <<
<if(backtracking)>
<if(actions.(actionScope).synpredgate)>
if <actions.(actionScope).synpredgate>:

```

```

    pass
    <action>

<else>
if <actions.(actionScope).synpredgate>:
    pass
    <action>

<endif>
<else>
#action start
<action>
#action end
<endif>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

codeFileExtension() ::= ".py"

true_value() ::= "True"
false_value() ::= "False"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python3/Python3.stg
No license file was found, but licenses were detected in source scan.

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*/

```

```

/** Templates for building ASTs during tree parsing.
*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

```

```

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = default(<ASTLabelType>);
<ASTLabelType> _last = default(<ASTLabelType>);
<endif>
>>

```

```

/** What to emit when there is no rewrite rule. For auto build
* mode, does nothing.
*/
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(rewriteMode)>
retval.Tree = (<ASTLabelType>)_first_0;
if (adaptor.GetParent(retval.Tree)!=null && adaptor.IsNil(adaptor.GetParent(retval.Tree)))
    retval.Tree = (<ASTLabelType>)adaptor.GetParent(retval.Tree);
<endif>
<if(backtracking)>}<endif>

```

```

<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
      enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  {
    <ASTLabelType> _save_last_<treeLevel> = _last;
    <ASTLabelType> _first_<treeLevel> = default(<ASTLabelType>);
    <if(!rewriteMode)>
      <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.Nil();
    <endif>
    <root:element()>
    <if(rewriteMode)>
      <if(backtracking)>if (<actions.(actionScope).synpredgate><endif>
      <if(root.el.rule)>
        if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>.Tree;
        <else>
          if (_first_<enclosingTreeLevel> == null) _first_<enclosingTreeLevel> = <root.el.label>;
        <endif>
      <endif>
      <actionsAfterRoot:element()>
      <if(nullableChildList)>
        if (input.LA(1) == TokenTypes.Down) {
          Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
          <children:element()>
          Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
        }
        <else>
          Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
          <children:element()>
          Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
        <endif>
      <endif>
      <if(!rewriteMode)>
        adaptor.AddChild(root_<enclosingTreeLevel>, root_<treeLevel>);
      <endif>
      _last = _save_last_<treeLevel>;
    }
    <else>
      <super.tree(...)>
    <endif>
  }
>>

// TOKEN AST STUFF

```

```

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<else>
<super.tokenRefBang(...)>
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.tokenRef(...)>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRef(...)>
<listLabelElem(elem=label,...)>
<else>
<super.tokenRefAndListLabel(...)>
<endif>

```

>>

/\*\* ^(ID ...) auto construct \*/

tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <<

<if(!ruleDescriptor.isSynPred)>

\_last = (<ASTLabelType>)input.LT(1);

<super.tokenRef(...)>

<if(!rewriteMode)>

<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>

<if(terminalOptions.node)>

<label>\_tree = new

<terminalOptions.node>(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);

<else>

<label>\_tree =

(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>);

<endif><\n>

root\_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>\_tree, root\_<treeLevel>);

<if(backtracking)>}<endif>

<endif>

<else>

<super.tokenRefRuleRoot(...)>

<endif>

>>

/\*\* Match ^(label+=TOKEN ...) auto construct \*/

tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<

<if(!ruleDescriptor.isSynPred)>

<tokenRefRuleRoot(...)>

<listLabelElem(elem=label,...)>

<else>

<super.tokenRefRuleRootAndListLabel(...)>

<endif>

>>

/\*\* Match . wildcard and auto dup the node/subtree \*/

wildcard(token,label,elementIndex,terminalOptions) ::= <<

<if(!ruleDescriptor.isSynPred)>

\_last = (<ASTLabelType>)input.LT(1);

<super.wildcard(...)>

<if(!rewriteMode)>

<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>

<label>\_tree = (<ASTLabelType>)adaptor.DupTree(<label>);

adaptor.AddChild(root\_<treeLevel>, <label>\_tree);

<if(backtracking)>}<endif>

<else> <! rewrite mode !>

<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>

```

if (_first_<treeLevel> == null) _first_<treeLevel> = <label>;
<endif>
<else>
<super.wildcard(...)>
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif><label><(if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<(if(terminalOptions.type)><terminalOptions.type>,<endif><label><(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
adaptor.AddChild(root_<treeLevel>, <label>_tree);
<if(backtracking)>\}<endif>
<endif>
}, ...
)>
<else>
<super.matchSet(...)>
<endif>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<if(!ruleDescriptor.isSynPred)>
<matchSet(...)>
<noRewrite(...)> <! set return tree !>
<else>
<super.matchRuleBlockSet(...)>
<endif>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
<else>

```

```

<super.matchSetBang(...)>
<endif>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(!ruleDescriptor.isSynPred)>
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<if(terminalOptions.node)>
<label>_tree = new
<terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.tex
t)>,<terminalOptions.text; format="string"><endif>);
<else>
<label>_tree =
(<ASTLabelType>)adaptor.DupNode(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(termin
alOptions.text)>,<terminalOptions.text; format="string"><endif>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>}\}<endif>
<endif>
}, ...
)>
<else>
<super.matchSetRuleRoot(...)>
<endif>
>>

```

```
// RULE REF AST
```

```

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>)<endif>
<if(!rewriteMode)>
adaptor.AddChild(root_<treeLevel>, <label>.Tree);
<else> <! rewrite mode !>
if (_first_<treeLevel> == null) _first_<treeLevel> = <label>.Tree;
<endif>
<else>
<super.ruleRef(...)>
<endif>
>>

```

```

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<

```

```

<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_<treeLevel>);
<endif>
<else>
<super.ruleRefRuleRoot(...)>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},...)>
<else>
<super.ruleRefRuleRootAndListLabel(...)>
<endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
<else>
<super.ruleRefTrack(...)>
<endif>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrackAndListLabel(...)>
<else>

```

```

<super.ruleRefTrackAndListLabel(...)>
<endif>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
<else>
<super.ruleRefRuleRootTrack(...)>
<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
<else>
<super.ruleRefRuleRootTrackAndListLabel(...)>
<endif>
>>

/** Streams for token refs are tree nodes now; override to
 * change NextToken to NextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,args) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node><(if(terminalOptions.type)><terminalOptions.type>,<endif>stream_<token>.NextNode())
<else>
stream_<token>.NextNode()
<endif>
%>

ruleCleanup() ::= <<
<super.ruleCleanup()>
<if(!ruleDescriptor.isSynPred)>
<if(!rewriteMode)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/CSharp2/ASTTreeParser.stg
```

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

```
/*
```

```
* [The "BSD license"]
```

```
* Copyright (c) 2011 Terence Parr
```

```
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```

```
*
```

```
* Conversion to C#:
```

```
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```

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```

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*
```

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```

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```

```
* THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.
```

```
*/
```

```
csharpVisibilityMap ::= [
```

```
  "private": "private",
```

```
  "protected": "protected",
```

```
  "public": "public",
```

```
  "fragment": "private",
```

```
  default: "private"
```

```
]
```

```
/** The overall file structure of a recognizer; stores methods for rules
```

```
* and cyclic DFAs plus support code.
```

```
*/
```

```
outputFile( LEXER,PARSER,TREE_PARSER, actionScope, actions,
```

```

docComment, recognizer,
name, tokens, tokenNames, rules, cyclicDFAs,
bitsets, buildTemplate, buildAST, rewriteMode, profile,
backtracking, synpreds, memoize, numRules,
fileName, ANTLRVersion, generatedTimestamp, trace,
scopes, superClass, literals) ::=
<<
//-----
//\<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>
//-----

// $ANTLR <ANTLRVersion> <fileName> <generatedTimestamp>

// The variable 'variable' is assigned but its value is never used.
#pragma warning disable 219
// Unreachable code detected.
#pragma warning disable 162
// Missing XML comment for publicly visible type or member 'Type_or_Member'
#pragma warning disable 1591
// CLS compliance checking will not be performed on 'type' because it is not visible from outside this assembly.
#pragma warning disable 3019

<actions.(actionScope).header>

<@imports>
using System.Collections.Generic;
using Antlr.Runtime;
using Antlr.Runtime.Misc;
<if(TREE_PARSER)>
using Antlr.Runtime.Tree;
using RewriteRuleITokenStream = Antlr.Runtime.Tree.RewriteRuleTokenStream;
<endif>
<@end>
<if(actions.(actionScope).namespace)>
namespace <actions.(actionScope).namespace>
{
<endif>
<docComment>
<recognizer>
<if(actions.(actionScope).namespace)>

} // namespace <actions.(actionScope).namespace>

```

```

<endif>
>>

lexerInputStreamType() ::= <<
<actions.(actionScope).inputStreamType; null="ICharStream">
>>

lexer(grammar, name, tokens, scopes, rules, numRules, filterMode, labelType="CommonToken",
superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Lexer
<endif>},
rewriteElementType={}, ASTLabelType={}) ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">
<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<actions.lexer.members>

// delegates
<grammar.delegates:
{g|private <g.recognizerName> <g.delegateName()>;}; separator="\n">
// delegators
<grammar.delegators:
{g|private <g.recognizerName> <g.delegateName()>;}; separator="\n">
<last(grammar.delegators):{g|private <g.recognizerName> gParent;}>

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>()<!-- needed by subclasses !-->
{
OnCreated();
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType>)
input<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}> )
: this(input, new RecognizerSharedState(<grammar.delegators:{g|, <g.delegateName()>}>))
{
}

<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName>(<lexerInputStreamType>) input,
RecognizerSharedState state<grammar.delegators:{g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<if(memoize)>
<if(grammar.grammarIsRoot)>
state.ruleMemo = new System.Collections.Generic.Dictionary<int, int>[<numRules>+1];<\n><!-- index from 1..n !-->
<endif>
<endif>
}
}

```

```

    <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, this.state<trunc(g.delegates):{p|,
    <p:delegateName()>}>, this);}; separator="\n">
    <grammar.delegates:
    {g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
    <last(grammar.delegates):{g|gParent = <g:delegateName()>;}>

    OnCreated();
    }
    public override string GrammarFileName { get { return "<fileName>"; } }

    <if(grammar.hasDelegates)>
    public override <lexerInputStreamType()> CharStream
    {
    get
    {
    return base.CharStream;
    }
    set
    {
    base.CharStream = value;
    <grammar.directDelegates:
    {g|<g:delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegates):{p|, <p:delegateName()>}>,
    this);}; separator="\n">
    <grammar.delegates:
    {g|this.<g:delegateName()> = <g:delegateName()>;}; separator="\n">
    <last(grammar.delegates):{g|gParent = <g:delegateName()>;}>
    }
    }

    <if(grammar.delegates)>
    public override void SetState(RecognizerSharedState state)
    {
    base.SetState(state);
    <grammar.delegates:{g|<g:delegateName()>.SetState(state);}; separator="\n">
    }
    <endif>

    <endif>
    <if(filterMode)>
    <filteringNextToken()>
    <endif>

    partial void OnCreated();
    partial void EnterRule(string ruleName, int ruleIndex);
    partial void LeaveRule(string ruleName, int ruleIndex);

```

```

<rules; separator="\n">

<insertLexerSynpreds(synpreds)>

#region DFA
<cyclicDFAs:{ dfa | DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
    base.InitDFAs();
    <cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>(this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif>;); separator="\n">
}

<cyclicDFAs:cyclicDFA()> <! dump tables for all DFA !>
#endregion

}
>>

/** A override of Lexer.nextToken() that backtracks over mTokens() looking
 * for matches. No error can be generated upon error; just rewind, consume
 * a token and then try again. backtracking needs to be set as well.
 * Make rule memoization happen only at levels above 1 as we start mTokens
 * at backtracking==1.
 */
filteringNextToken() ::= <<
public override IToken NextToken()
{
    while (true)
    {
        if (input.LA(1) == CharStreamConstants.EndOfFile)
        {
            IToken eof = new CommonToken((ICharStream)input, CharStreamConstants.EndOfFile, TokenChannels.Default,
input.Index, input.Index);
            eof.Line = Line;
            eof.CharPositionInLine = CharPositionInLine;
            return eof;
        }
        state.token = null;
        state.channel = TokenChannels.Default;
        state.tokenStartCharIndex = input.Index;
        state.tokenStartCharPositionInLine = input.CharPositionInLine;
        state.tokenStartLine = input.Line;
        state.text = null;
        try
        {
            int m = input.Mark();

```

```

state.backtracking=1;<! means we won't throw slow exception !>
state.failed=false;
mTokens();
state.backtracking=0;
<! mTokens backtracks with synpred at backtracking==2
and we set the synpredgate to allow actions at level 1. !>
if (state.failed)
{
input.Rewind(m);
input.Consume();<! advance one char and try again !>
}
else
{
Emit();
return state.token;
}
}
catch (RecognitionException re)
{
// shouldn't happen in backtracking mode, but...
ReportError(re);
Recover(re);
}
}
}

public override void Memoize(IIntStream input, int ruleIndex, int ruleStartIndex)
{
if (state.backtracking > 1)
base.Memoize(input, ruleIndex, ruleStartIndex);
}

public override bool AlreadyParsedRule(IIntStream input, int ruleIndex)
{
if (state.backtracking > 1)
return base.AlreadyParsedRule(input, ruleIndex);

return false;
}
>>

actionGate() ::= "state.backtracking == 0"

filteringActionGate() ::= "state.backtracking == 1"

/** How to generate a parser */
genericParser(grammar, name, scopes, tokens, tokenNames, rules, numRules,
bitsets, inputStreamType, superClass,

```

```

        labelType, members, rewriteElementType,
        filterMode, ASTLabelType="object") ::= <<
[System.CodeDom.Compiler.GeneratedCode("ANTLR", "<ANTLRVersion>")]
[System.CLSCompliant(false)]
<parserModifier(grammar=grammar, actions=actions)> partial class <grammar.recognizerName> :
<@superClassName><superClass><@end>
{
<if(grammar.grammarIsRoot)>
internal static readonly string[] tokenNames = new string[] {
    "\<invalid>", "\<EOR>", "\<DOWN>", "\<UP>", <tokenNames; separator=", ">
};
<endif>
<tokens:{it|public const int <it.name; format="id">=<it.type>;}; separator="\n">

<if(grammar.delegates)>
// delegates
<grammar.delegates:
    {g|private <g.recognizerName> <g:delegateName(>);}; separator="\n">
<endif>
<if(grammar.delegators)>
// delegators
<grammar.delegators:
    {g|private <g.recognizerName> <g:delegateName(>);}; separator="\n">
<last(grammar.delegators):{g|private <g.recognizerName> gParent;}>
<endif>

<if(grammar.delegates)>
public override void SetState(RecognizerSharedState state)
{
    base.SetState(state);
    <grammar.delegates:{g|<g:delegateName(>.SetState(state);}; separator="\n">
}

<if(TREE_PARSER)>
public override void SetTreeNodeStream(ITreeNodeStream input)
{
    base.SetTreeNodeStream(input);
    <grammar.delegates:{g|<g:delegateName(>.SetTreeNodeStream(input);}; separator="\n">
}
<endif>
<endif>

<scopes:{it|<if(it.isDynamicGlobalScope)><globalAttributeScope(scope=it)><endif>}>
<@members(>

public override string[] TokenNames { get { return
<grammar.composite.rootGrammar.recognizerName>.tokenNames; } }
public override string GrammarFileName { get { return "<fileName>"; } }

```

```

<members>

partial void OnCreated();
partial void EnterRule(string ruleName, int ruleIndex);
partial void LeaveRule(string ruleName, int ruleIndex);

#region Rules
<rules; separator="\n">
#endregion Rules

<if(grammar.delegatedRules)>
<! generate rule/method definitions for imported rules so they
appear to be defined in this recognizer. !>
#region Delegated rules
<grammar.delegatedRules:{ ruleDescriptor|
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <return Type(ruleDescriptor)>
<ruleDescriptor.name; format="id"><(ruleDescriptor.parameterScope:parameterScope())> <!throws
RecognitionException !>{ <if(ruleDescriptor.hasReturnValue)>return
<endif><(ruleDescriptor.grammar:delegateName()).<ruleDescriptor.name;
format="id"><(ruleDescriptor.parameterScope.attributes:{ a|<a.name; format="id">}; separator=", ">); \}};
separator="\n">
#endregion Delegated rules
<endif>

<insertSynpreds(synpreds)>

<if(cyclicDFAs)>
#region DFA
<cyclicDFAs:{ dfa | private DFA<dfa.decisionNumber> dfa<dfa.decisionNumber>;}; separator="\n">

protected override void InitDFAs()
{
base.InitDFAs();
<cyclicDFAs:{ dfa | dfa<dfa.decisionNumber> = new DFA<dfa.decisionNumber>( this<if(dfa.specialStateSTs)>,
SpecialStateTransition<dfa.decisionNumber><endif> );}; separator="\n">
}

<cyclicDFAs:cyclicDFA()><! dump tables for all DFA !>
#endregion DFA
<endif>

<if(bitsets)>
#region Follow sets
private static class Follow
{
<bitsets: {it|<bitset(name={_<it.name>_in_<it.inName><it.tokenIndex>}, words64=it.bits)>}; separator="\n">
}

```

```

#endregion Follow sets
<endif>
}
>>

@genericParser.members() ::= <<
<! WARNING. bug in ST: this is cut-n-paste into Dbg.stg !>
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName><(inputStreamType>
input<grammar.delegates:{g|, <g.recognizerName> <g.delegateName()>}>)
: this(input, new RecognizerSharedState()<grammar.delegates:{g|, <g.delegateName()>}>)
{
}
<actions.(actionScope).ctorModifier; null="public"> <grammar.recognizerName><(inputStreamType> input,
RecognizerSharedState state<grammar.delegates:{g|, <g.recognizerName> <g.delegateName()>}>)
: base(input, state)
{
<if(grammar.directDelegates)>
<grammar.directDelegates:
{g|<g.delegateName()> = new <g.recognizerName>(input, state<trunc(g.delegates):{p|, <p.delegateName()>}>,
this);}; separator="\n">
<endif>
<if(grammar.indirectDelegates)>
<grammar.indirectDelegates:{g | <g.delegateName()> = <g.delegator.delegateName()>.<g.delegateName()>};
separator="\n">
<endif>
<if(grammar.delegates)>
<last(grammar.delegates):{g|gParent = <g.delegateName()>};>
<endif>
<parserCtorBody()>
OnCreated();
}
>>

// imported grammars are 'public' (can't be internal because their return scope classes must be accessible)
parserModifier(grammar, actions) ::= <<
<if(grammar.grammarIsRoot)><actions.(actionScope).modifier; null="public"><else>public<endif>
>>

parserCtorBody() ::= <<
<if(memoize)>
<if(grammar.grammarIsRoot)>
this.state.ruleMemo = new System.Collections.Generic.Dictionary<int,
int>[<length(grammar.allImportedRules)>+1];<\n><! index from 1..n !>
<endif>
<endif>
<grammar.delegates:
{g|this.<g.delegateName()> = <g.delegateName()>}; separator="\n">
>>

```

```

parser(grammar, name, scopes, tokens, tokenNames, rules, numRules, bitsets,
    ASTLabelType="object",
    superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Parser
<endif>}, labelType="IToken",
    members={ <actions.parser.members>}) ::= <<
<genericParser(inputStreamType="ITokenStream", rewriteElementType="IToken", filterMode=false, ...)>
>>

```

```

/** How to generate a tree parser; same as parser except the input

```

```

* stream is a different type.

```

```

*/

```

```

treeParser(grammar, name, scopes, tokens, tokenNames, globalAction, rules,
    numRules, bitsets, filterMode, labelType={ <ASTLabelType>}, ASTLabelType="object",
    superClass={ <if(actions.(actionScope).superClass)><actions.(actionScope).superClass><else>Antlr.Runtime.Tree.<
if(filterMode)><if(buildAST)>TreeRewriter<else>TreeFilter<endif><else>TreeParser<endif><endif>},
    members={ <actions.treeparser.members>}) ::= <<
<genericParser(inputStreamType="ITreeNodeStream", rewriteElementType="Node", ...)>
>>

```

```

/** A simpler version of a rule template that is specific to the imaginary

```

```

* rules created for syntactic predicates. As they never have return values

```

```

* nor parameters etc..., just give simplest possible method. Don't do

```

```

* any of the normal memoization stuff in here either; it's a waste.

```

```

* As predicates cannot be inlined into the invoking rule, they need to

```

```

* be in a rule by themselves.

```

```

*/

```

```

synpredRule(ruleName, ruleDescriptor, block, description, nakedBlock) ::=

```

```

<<

```

```

partial void EnterRule_<ruleName>_fragment();

```

```

partial void LeaveRule_<ruleName>_fragment();

```

```

// $ANTLR start <ruleName>

```

```

<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void

```

```

<ruleName>_fragment(<ruleDescriptor.parameterScope:parameterScope()>)

```

```

{

```

```

    <ruleLabelDefs(...)>

```

```

    EnterRule_<ruleName>_fragment();

```

```

    EnterRule("<ruleName>_fragment", <ruleDescriptor.index>);

```

```

    TraceIn("<ruleName>_fragment", <ruleDescriptor.index>);

```

```

    try

```

```

    {

```

```

        <block>

```

```

    }

```

```

    finally

```

```

    {

```

```

        TraceOut("<ruleName>_fragment", <ruleDescriptor.index>);

```

```

    LeaveRule("<ruleName>_fragment", <ruleDescriptor.index>);
    LeaveRule_<ruleName>_fragment();
}
}
// $ANTLR end <ruleName>
>>

insertLexerSynpreds(synpreds) ::= <<
<insertSynpreds(synpreds)>
>>

insertSynpreds(synpreds) ::= <<
<if(synpreds)>
#region Synpreds
private bool EvaluatePredicate(System.Action fragment)
{
    bool success = false;
    state.backtracking++;
    <@start()>
    try { DebugBeginBacktrack(state.backtracking);
    int start = input.Mark();
    try
    {
        fragment();
    }
    catch ( RecognitionException re )
    {
        System.Console.Error.WriteLine("impossible: "+re);
    }
    success = !state.failed;
    input.Rewind(start);
} finally { DebugEndBacktrack(state.backtracking, success); }
    <@stop()>
    state.backtracking--;
    state.failed=false;
    return success;
}
#endregion Synpreds
<endif>
>>

ruleMemoization(name) ::= <<
<if(memoize)>
if (state.backtracking > 0 && AlreadyParsedRule(input, <ruleDescriptor.index>)) { <returnFromRule()> }
<endif>
>>

/** How to test for failure and return from rule */

```

```

checkRuleBacktrackFailure() ::= <<
<if(backtracking)>if (state.failed) <returnFromRule(><endif>
>>

/** This rule has failed, exit indicating failure during backtrack */
ruleBacktrackFailure() ::= <<
<if(backtracking)>if (state.backtracking>0) { state.failed=true; <returnFromRule(>}<endif>
>>

ruleWrapperMap ::= [
"bottomup":{<ruleWrapperBottomup(>},
"topdown":{<ruleWrapperTopdown(>},
default:""
]

ruleWrapperBottomup() ::= <<
<if(TREE_PARSER && filterMode)>
protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Bottomup() { <if(buildAST)>return
<endif>bottomup(); }
<endif>
>>

ruleWrapperTopdown() ::= <<
<if(TREE_PARSER && filterMode)>
protected override <if(buildAST)>IAstRuleReturnScope<else>void<endif> Topdown() { <if(buildAST)>return
<endif>topdown(); }
<endif>
>>

/** How to generate code for a rule. This includes any return type
 * data aggregates required for multiple return values.
 */
rule(ruleName,ruleDescriptor,block,emptyRule,description,exceptions,finally,memoize) ::= <<
<ruleAttributeScope(scope=ruleDescriptor.ruleScope)>
<returnScope(ruleDescriptor.returnScope)>
partial void EnterRule_<ruleName>();
partial void LeaveRule_<ruleName>();
<ruleWrapperMap.(ruleName)>
// $ANTLR start "<ruleName>"
// <fileName>:<description>
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> <returnType(ruleDescriptor)> <ruleName;
format="id">(<ruleDescriptor.parameterScope:parameterScope(>)
{
EnterRule_<ruleName>();
EnterRule("<ruleName>", <ruleDescriptor.index>);
TraceIn("<ruleName>", <ruleDescriptor.index>);
<ruleScopeSetUp(>

```

```

<ruleDeclarations()>
<ruleLabelDefs(...)>
<ruleDescriptor.actions.init>
try { DebugEnterRule(GrammarFileName, "<ruleName>");
DebugLocation(<ruleDescriptor.tree.line>, <ruleDescriptor.EORNode.charPositionInLine>);
<@preamble()>
try
{
<ruleMemoization(name=ruleName)>
<block>
<ruleCleanUp()>
<(ruleDescriptor.actions.after):execAction()>
}
<if(exceptions)>
<exceptions: {e|<catch(decl=e.decl,action=e.action)><\n>}>
<else>
<if(!emptyRule)>
<if(actions.(actionScope).rulecatch)>
<actions.(actionScope).rulecatch>
<else>
catch (RecognitionException re)
{
ReportError(re);
Recover(input,re);
<@setErrorReturnValue()>
}
<endif>
<endif>
<endif>
finally
{
TraceOut("<ruleName>", <ruleDescriptor.index>);
LeaveRule("<ruleName>", <ruleDescriptor.index>);
LeaveRule_<ruleName>();
<memoize()>
<ruleScopeCleanUp()>
<finally>
}
DebugLocation(<ruleDescriptor.EORNode.line>, <ruleDescriptor.EORNode.charPositionInLine>);
} finally { DebugExitRule(GrammarFileName, "<ruleName>"); }
<@postamble()>
<returnFromRule()><\n>
}
// $ANTLR end "<ruleName>"
>>

// imported grammars need to have internal rules
ruleModifier(grammar,ruleDescriptor) ::= <<

```

```

<if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>internal<endif>
>>

// imported grammars need to have public return scopes
returnScopeModifier(grammar,ruleDescriptor) ::= <<
<if(grammar.grammarIsRoot)><csharpVisibilityMap.(ruleDescriptor.modifier);
null="private"><else>public<endif>
>>

catch(decl,action) ::= <<
catch (<e.decl>)
{
<e.action>
}
>>

ruleDeclarations() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<returnType(ruleDescriptor)> retval = new
<returnType(ruleDescriptor)><(if(ruleDescriptor.returnScope.attributes)>this<endif>);
retval.Start = (<labelType>)input.LT(1);
<else>
<ruleDescriptor.returnScope.attributes: { a |
<a.type> <a.name; format="id"> = <if(a.initValue)><a.initValue><else><initValue(a.type)><endif>;
}>
<endif>
<if(memoize)>
int <ruleDescriptor.name>_startIndex = input.Index;
<endif>
>>

ruleScopeSetUp() ::= <<
<ruleDescriptor.useScopes: { it|<it>_stack.Push(new <it>_scope(this));<it>_scopeInit(<it>_stack.Peek());};
separator="\n">
<ruleDescriptor.ruleScope: { it|<it.name>_stack.Push(new
<it.name>_scope(this));<it.name>_scopeInit(<it.name>_stack.Peek());}; separator="\n">
>>

ruleScopeCleanUp() ::= <<
<ruleDescriptor.useScopes: { it|<it>_scopeAfter(<it>_stack.Peek());<it>_stack.Pop();}; separator="\n">
<ruleDescriptor.ruleScope: { it|<it.name>_scopeAfter(<it.name>_stack.Peek());<it.name>_stack.Pop();};
separator="\n">
>>

ruleLabelDefs(ruleDescriptor, labelType, ASTLabelType, rewriteElementType) ::= <<
<[ruleDescriptor.tokenLabels,ruleDescriptor.tokenListLabels,ruleDescriptor.wildcardTreeLabels,ruleDescriptor.wildcardTreeListLabels]

```

```

: {it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n"
>
<ruleDescriptor.tokenListLabels
: {it|List\<<labelType>\> list_<it.label.text> = null;}; separator="\n"
>
<[ruleDescriptor.ruleListLabels,ruleDescriptor.wildcardTreeListLabels]
: {it|List\<<ASTLabelType>\> list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.ruleLabels:ruleLabelDef(); separator="\n">
<ruleDescriptor.ruleListLabels:ruleLabelDef(); separator="\n">
>>

lexerRuleLabelDefs() ::= <<
<[ruleDescriptor.tokenLabels,
ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleLabels]
: {it|<labelType> <it.label.text> = default(<labelType>);}; separator="\n"
>
<[ruleDescriptor.charListLabels,
ruleDescriptor.charLabels]
: {it|int <it.label.text> = 0;}; separator="\n"
>
<[ruleDescriptor.tokenListLabels,
ruleDescriptor.ruleListLabels]
: {it|List\<<labelType>\> list_<it.label.text> = null;}; separator="\n"
>
<ruleDescriptor.charListLabels: {it|List\<int>\> list_<it.label.text> = null;}; separator="\n"
>
>>

returnFromRule() ::= <%
return
<if(!ruleDescriptor.isSynPred)>
<if(ruleDescriptor.hasReturnValue)>
<if(ruleDescriptor.hasSingleReturnValue)>
<! This comment is a hack to make sure the following
single space appears in the output. !> <ruleDescriptor.singleValueReturnName>
<else>
<!!> retval
<endif>
<endif>
<endif>
;
%>

ruleCleanUp() ::= <<
<if(ruleDescriptor.hasMultipleReturnValues)>
<if(!TREE_PARSER)>

```

```

retval.Stop = (<labelType>)input.LT(-1);
<endif>
<endif>
>>

memoize() ::= <<
<if(memoize)>
<if(backtracking)>
if (state.backtracking > 0) { Memoize(input, <ruleDescriptor.index>, <ruleDescriptor.name>_startIndex); }
<endif>
<endif>
>>

/** How to generate a rule in the lexer; naked blocks are used for
 * fragment rules.
 */
lexerRule(ruleName,nakedBlock,ruleDescriptor,block,memoize) ::= <<

partial void EnterRule_<ruleName>();
partial void LeaveRule_<ruleName>();

// $ANTLR start "<ruleName>"
[GrammarRule("<ruleName>")]
<ruleModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> void
m<ruleName>(<ruleDescriptor.parameterScope:parameterScope()>)
{
  EnterRule_<ruleName>();
  EnterRule("<ruleName>", <ruleDescriptor.index>);
  TraceIn("<ruleName>", <ruleDescriptor.index>);
  <ruleScopeSetUp()>
  <ruleDeclarations()>
  try
  {
    <if(nakedBlock)>
      <ruleMemoization(name=ruleName)>
      <lexerRuleLabelDefs()>
      <ruleDescriptor.actions.init>
      <block>
    <else>
      int _type = <ruleName>;
      int _channel = DefaultTokenChannel;
      <ruleMemoization(name=ruleName)>
      <lexerRuleLabelDefs()>
      <ruleDescriptor.actions.init>
      <block>
      <ruleCleanUp()>
      state.type = _type;
      state.channel = _channel;
    </if>
  }
  catch (RecognitionException re) {
    state.failed = re;
  }
}

```

```

    <(ruleDescriptor.actions.after):execAction()>
<endif>
}
finally
{
    TraceOut("<ruleName>", <ruleDescriptor.index>);
    LeaveRule("<ruleName>", <ruleDescriptor.index>);
    LeaveRule_<ruleName>();
    <ruleScopeCleanUp()>
    <memoize()>
}
}
// $ANTLR end "<ruleName>"
>>

/** How to generate code for the implicitly-defined lexer grammar rule
 * that chooses between lexer rules.
 */
tokensRule(ruleName,nakedBlock,args,block,ruleDescriptor) ::= <<

public override void mTokens()
{
    <block><\n>
}
>>

// S U B R U L E S

/** A (...) subrule with multiple alternatives */
block(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterSubRule(<decisionNumber>);
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
<@prebranch()>
switch (alt<decisionNumber>)
{
    <alts:{a|<altSwitchCase(i,a)>}>
}
} finally { DebugExitSubRule(<decisionNumber>); }
<@postbranch()>
>>

```

```

/** A rule block with multiple alternatives */
ruleBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int alt<decisionNumber>=<maxAlt>;
<decls>
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);
<decision>
} finally { DebugExitDecision(<decisionNumber>); }
<@postdecision()>
switch (alt<decisionNumber>)
{
<alts:{a|altSwitchCase(i,a)}>
}
>>

ruleBlockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

/** A special case of a (...) subrule with a single alternative */
blockSingleAlt(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,description) ::= <<
// <fileName>:<description>
<decls>
<@prealt()>
DebugEnterAlt(1);
<alts>
<@postalt()>
>>

/** A (..)+ block with 1 or more alternatives */
positiveClosureBlock(alts,decls,decision,enclosingBlockLevel,blockLevel,decisionNumber,maxK,maxAlt,description) ::= <<
// <fileName>:<description>
int cnt<decisionNumber>=0;
<decls>
<@preloop()>
try { DebugEnterSubRule(<decisionNumber>);
while (true)
{
int alt<decisionNumber>=<maxAlt>;
<@predecision()>
try { DebugEnterDecision(<decisionNumber>, false<!<decision.dfa.hasSynPred>!>);

```



```

}

loop<decisionNumber>:
;

} finally { DebugExitSubRule(<decisionNumber>); }
<@postloop()>
>>

closureBlockSingleAlt ::= closureBlock

/** Optional blocks (x)? are translated to (x|) by before code generation
 * so we can just use the normal block template
 */
optionalBlock ::= block

optionalBlockSingleAlt ::= block

/** A case in a switch that jumps to an alternative given the alternative
 * number. A DFA predicts the alternative and then a simple switch
 * does the jump to the code that actually matches that alternative.
 */
altSwitchCase(altNum,alt) ::= <<
case <altNum>:
<@prealt()>
DebugEnterAlt(<altNum>);
<alt>
break;<\n>
>>

/** An alternative is just a list of elements; at outermost level */
alt(elements,altNum,description,autoAST,outerAlt,treeLevel,rew) ::= <<
// <fileName>:<description>
{
<@declarations()>
<elements:element()>
<rew>
<@cleanup()>
}
>>

/** What to emit when there is no rewrite. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= ""

// E L E M E N T S

```

```

/** Dump the elements one per line */
element(it) ::= <%
<@prematch(>
DebugLocation(<it.line>, <it.pos>);<\n>
<it.el><\n>
%>

/** match a token optionally with a label in front */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
<if(label)><label>=<(<labelType>)<endif>Match(input,<token>,Follow._<token>_in_<ruleName><elementIndex>);
<checkRuleBacktrackFailure(>
>>

/** ids+=ID */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

listLabel(label,elem) ::= <<
#error The listLabel template should not be used with this target.<\n>
>>

listLabelElem(label,elem,elemType) ::= <<
if (list_<label>==null) list_<label>=new List<<elemType; null={ <labelType> }>>();
list_<label>.Add(<elem>);<\n>
>>

/** match a character */
charRef(char,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
Match(<char>); <checkRuleBacktrackFailure(>
>>

/** match a character range */
charRangeRef(a,b,label) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchRange(<a>,<b>); <checkRuleBacktrackFailure(>
>>

/** For now, sets are interval tests and must be tested inline */
matchSet(s,label,terminalOptions,elementIndex,postmatchCode="") ::= <<
<if(label)>
<matchSetLabel(>

```

```

<endif>
if (<s>)
{
input.Consume();
<postmatchCode>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
}
else
{
<ruleBacktrackFailure()>
MismatchedSetException mse = new MismatchedSetException(null,input);
DebugRecognitionException(mse);
<@mismatchedSetException()>
<if(LEXER)>
Recover(mse);
throw mse;
<else>
throw mse;
<! use following code to make it recover inline; remove throw mse;
recoverFromMismatchedSet(input,mse,Follow._set_in_<ruleName><elementIndex>);
!>
<endif>
}<\n>
>>

```

```

matchSetUnchecked(s,label,elementIndex,postmatchCode=false) ::= <%
<if(label)>
<matchSetLabel()><\n>
<endif>
input.Consume();<\n>
<if(postmatchCode)>
<postmatchCode><\n>
<endif>
<if(!LEXER)>state.errorRecovery=false;<endif><if(backtracking)>state.failed=false;<endif>
%>

```

```

matchSetLabel() ::= <%
<if(LEXER)>
<label>= input.LA(1);
<else>
<label>=(<labelType>)input.LT(1);
<endif>
%>

```

```

matchRuleBlockSet ::= matchSet

```

```

matchSetAndListLabel(s,label,elementIndex,postmatchCode) ::= <<
<matchSet(...)>

```

```

<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match a string literal */
lexerStringRef(string,label,elementIndex) ::= <%
<if(label)>
int <label>Start = CharIndex;<\n>
Match(<string>); <checkRuleBacktrackFailure()><\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start, CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(<string>); <checkRuleBacktrackFailure()><\n>
<endif>
%>

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);<\n>
<endif>
MatchAny(input); <checkRuleBacktrackFailure()>
>>

wildcardAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<wildcard(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match . wildcard in lexer */
wildcardChar(label, elementIndex) ::= <<
<if(label)>
<label> = input.LA(1);<\n>
<endif>
MatchAny(); <checkRuleBacktrackFailure()>
>>

wildcardCharListLabel(label, elementIndex) ::= <<
<wildcardChar(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match a rule reference by invoking it possibly with arguments
* and a return value or values. The 'rule' argument was the
* target rule name, but now is type Rule, whose toString is
* same: the rule name. Now though you can access full rule
* descriptor stuff.

```

```

*/
ruleRef(rule,label,elementIndex,args,scope) ::= <<
PushFollow(Follow._<rule.name>_in_<ruleName><elementIndex>);
<if(label)><label>=<endof><if(scope)><scope.delegateName()>.<endof><rule.name; format="id">(<args;
separator=", ">);
PopFollow();
<checkRuleBacktrackFailure()>
>>

/** ids+=r */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem=label,elemType={<ASTLabelType>},...)>
>>

/** A lexer rule reference.
*
* The 'rule' argument was the target rule name, but now
* is type Rule, whose toString is same: the rule name.
* Now though you can access full rule descriptor stuff.
*/
lexerRuleRef(rule,label,args,elementIndex,scope) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>
int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
<if(scope)><scope.delegateName()>.<endof>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()><\n>
<label> = new <labelType>(input, TokenTypes.Invalid, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
<if(scope)><scope.delegateName()>.<endof>m<rule.name>(<args; separator=", ">);
<checkRuleBacktrackFailure()>
<endof>
%>

/** i+=INT in lexer */
lexerRuleRefAndListLabel(rule,label,args,elementIndex,scope) ::= <<
<lexerRuleRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** EOF in the lexer */
lexerMatchEOF(label,elementIndex) ::= <%
<if(label)>
int <label>Start<elementIndex> = CharIndex;<\n>

```

```

int <label>StartLine<elementIndex> = Line;<\n>
int <label>StartCharPos<elementIndex> = CharPositionInLine;<\n>
Match(EOF); <checkRuleBacktrackFailure()><\n>
<labelType> <label> = new <labelType>(input, EOF, TokenChannels.Default, <label>Start<elementIndex>,
CharIndex-1);<\n>
<label>.Line = <label>StartLine<elementIndex>;<\n>
<label>.CharPositionInLine = <label>StartCharPos<elementIndex>;
<else>
Match(EOF); <checkRuleBacktrackFailure()>
<endif>
%>

// used for left-recursive rules
recRuleDefArg()          ::= "int <recRuleArg()>"
recRuleArg()            ::= "_p"
recRuleAltPredicate(ruleName,opPrec) ::= "<recRuleArg()> \<= <opPrec>"
recRuleSetResultAction() ::= "root_0=$<ruleName>_primary.tree;"

/** match ^(root children) in tree parser */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<root:element()>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if (input.LA(1) == TokenTypes.Down)
{
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
}
<else>
Match(input, TokenTypes.Down, null); <checkRuleBacktrackFailure()>
<children:element()>
Match(input, TokenTypes.Up, null); <checkRuleBacktrackFailure()>
<endif>
>>

/** Every predicate is used as a validating predicate (even when it is
* also hoisted into a prediction expression).
*/
validateSemanticPredicate(pred,description) ::= <<
if (!(<evalPredicate(...)>))
{
<ruleBacktrackFailure()>
throw new FailedPredicateException(input, "<ruleName>", "<description>");
}
>>

```

```
// F i x e d D F A (if-then-else)
```

```
dfaState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
else
{
<if(eotPredictsAlt)>
alt<decisionNumber> = <eotPredictsAlt>;
<else>
<ruleBacktrackFailure()>
NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input, <k>);
DebugRecognitionException(nvae);
<@noViableAltException()>
throw nvae;
<endif>
}
>>
```

```
/** Same as a normal DFA state except that we don't examine lookahead
 * for the bypass alternative. It delays error detection but this
 * is faster, smaller, and more what people expect. For (X)? people
 * expect "if ( LA(1)==X ) match(X);" and that's it.
 */
```

```
dfaOptionalBlockState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);<\n>
<edges; separator="\nelse ">
>>
```

```
/** A DFA state that is actually the loopback decision of a closure
 * loop. If end-of-token (EOT) predicts any of the targets then it
 * should act like a default clause (i.e., no error can be generated).
 * This is used only in the lexer so that for ('a')* on the end of a rule
 * anything other than 'a' predicts exiting.
 */
```

```
dfaLoopbackState(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
int LA<decisionNumber>_<k> = input.LA(<k>);<\n>
<edges; separator="\nelse "><\n>
<if(eotPredictsAlt)>
<if(!edges)>
alt<decisionNumber> = <eotPredictsAlt>;<! if no edges, don't gen ELSE !>
<else>
else
{
alt<decisionNumber> = <eotPredictsAlt>;
}<\n>
<endif>
```

```

<endif>
>>

/** An accept state indicates a unique alternative has been predicted */
dfaAcceptState(alt) ::= "alt<decisionNumber> = <alt>";

/** A simple edge with an expression. If the expression is satisfied,
 * enter to the target state. To handle gated productions, we may
 * have to evaluate some predicates for this edge.
 */
dfaEdge(labelExpr, targetState, predicates) ::= <<
if ((<labelExpr><if(predicates)> && (<predicates><endif>))
{
    <targetState>
}
>>

// F i x e d D F A (switch case)

/** A DFA state where a SWITCH may be generated. The code generator
 * decides if this is possible: CodeGenerator.canGenerateSwitch().
 */
dfaStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
    default:
    <if(eotPredictsAlt)>
    alt<decisionNumber>=<eotPredictsAlt>;
    break;<\n>
    <else>
    {
        <ruleBacktrackFailure()>
        NoViableAltException nvae = new NoViableAltException("<description>", <decisionNumber>, <stateNumber>,
input, <k>);
        DebugRecognitionException(nvae);
        <@noViableAltException()>
        throw nvae;
    }
    <endif>
}
<\n>
>>

dfaOptionalBlockStateSwitch(k,edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
    <edges; separator="\n">
}
<\n>

```

```

>>

dfaLoopbackStateSwitch(k, edges,eotPredictsAlt,description,stateNumber,semPredState) ::= <<
switch (input.LA(<k>))
{
<edges; separator="\n">
<if(eotPredictsAlt)>
default:
alt<decisionNumber>=<eotPredictsAlt>;
break;<\n>
<endif>
}<\n>
>>

```

```

dfaEdgeSwitch(labels, targetState) ::= <<
<labels: {it|case <it>:}; separator="\n">
{
<targetState>
}
break;
>>

```

```
// C y c l i c D F A
```

```

/** The code to initiate execution of a cyclic DFA; this is used
 * in the rule to predict an alt just like the fixed DFA case.
 * The <name> attribute is inherited via the parser, lexer, ...
 */

```

```

dfaDecision(decisionNumber,description) ::= <<
try
{
alt<decisionNumber> = dfa<decisionNumber>.Predict(input);
}
catch (NoViableAltException nvae)
{
DebugRecognitionException(nvae);
throw;
}
>>

```

```

/* Dump DFA tables as run-length-encoded Strings of octal values.
 * Can't use hex as compiler translates them before compilation.
 * These strings are split into multiple, concatenated strings.
 * Java puts them back together at compile time thankfully.
 * Java cannot handle large static arrays, so we're stuck with this
 * encode/decode approach. See analysis and runtime DFA for
 * the encoding methods.
 */

```

```

cyclicDFA(dfa) ::= <<
private class DFA<dfa.decisionNumber> : DFA
{
private const string DFA<dfa.decisionNumber>_eotS =
"<dfa.javaCompressedEOT; wrap="\n\t\t">";
private const string DFA<dfa.decisionNumber>_eofS =
"<dfa.javaCompressedEOF; wrap="\n\t\t">";
private const string DFA<dfa.decisionNumber>_minS =
"<dfa.javaCompressedMin; wrap="\n\t\t">";
private const string DFA<dfa.decisionNumber>_maxS =
"<dfa.javaCompressedMax; wrap="\n\t\t">";
private const string DFA<dfa.decisionNumber>_acceptS =
"<dfa.javaCompressedAccept; wrap="\n\t\t">";
private const string DFA<dfa.decisionNumber>_specialS =
"<dfa.javaCompressedSpecial; wrap="\n\t\t">>";
private static readonly string[] DFA<dfa.decisionNumber>_transitionS =
{
<dfa.javaCompressedTransition: {s|<s; wrap="\n\t\t">}; separator=",\n">
};

private static readonly short[] DFA<dfa.decisionNumber>_eot =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eotS);
private static readonly short[] DFA<dfa.decisionNumber>_eof =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_eofS);
private static readonly char[] DFA<dfa.decisionNumber>_min =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_minS);
private static readonly char[] DFA<dfa.decisionNumber>_max =
DFA.UnpackEncodedStringToUnsignedChars(DFA<dfa.decisionNumber>_maxS);
private static readonly short[] DFA<dfa.decisionNumber>_accept =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_acceptS);
private static readonly short[] DFA<dfa.decisionNumber>_special =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_specialS);
private static readonly short[][] DFA<dfa.decisionNumber>_transition;

static DFA<dfa.decisionNumber>()
{
int numStates = DFA<dfa.decisionNumber>_transitionS.Length;
DFA<dfa.decisionNumber>_transition = new short[numStates][];
for ( int i=0; i < numStates; i++ )
{
DFA<dfa.decisionNumber>_transition[i] =
DFA.UnpackEncodedString(DFA<dfa.decisionNumber>_transitionS[i]);
}
}

public DFA<dfa.decisionNumber>( BaseRecognizer recognizer<if(dfa.specialStateSTs)>,
SpecialStateTransitionHandler specialStateTransition<endif> )
<if(dfa.specialStateSTs)>

```

```

: base(specialStateTransition)
<endif>
{
this.recognizer = recognizer;
this.decisionNumber = <dfa.decisionNumber>;
this.eot = DFA<dfa.decisionNumber>_eot;
this.eof = DFA<dfa.decisionNumber>_eof;
this.min = DFA<dfa.decisionNumber>_min;
this.max = DFA<dfa.decisionNumber>_max;
this.accept = DFA<dfa.decisionNumber>_accept;
this.special = DFA<dfa.decisionNumber>_special;
this.transition = DFA<dfa.decisionNumber>_transition;
}

public override string Description { get { return "<dfa.description>"; } }

public override void Error(NoViableAltException nvae)
{
    DebugRecognitionException(nvae);
}
}<\n>
<if(dfa.specialStateSTs)>
private int SpecialStateTransition<dfa.decisionNumber>(DFA dfa, int s, IIntStream _input)<! throws
NoViableAltException!>
{
    <if(LEXER)>
    IIntStream input = _input;
    <endif>
    <if(PARSER)>
    ITokenStream input = (ITokenStream)_input;
    <endif>
    <if(TREE_PARSER)>
    ITreeNodeStream input = (ITreeNodeStream)_input;
    <endif>
    int _s = s;
    s = -1;
    <! pull these outside the switch cases to save space on locals !>
    int LA<dfa.decisionNumber>_1 = input.LA(1);
    int index<dfa.decisionNumber>_1 = input.Index;
    switch (_s)
    {
    <dfa.specialStateSTs: {state |case <i0>:<! compressed special state numbers 0..n-1 !>
<state>}; separator="\n">

    default:
    break;
    }
}

```

```

if (s >= 0)
    return s;

<if(backtracking)>
if (state.backtracking > 0) {state.failed=true; return -1;}
<endif>
NoViableAltException nvae = new NoViableAltException(dfa.Description, <dfa.decisionNumber>, _s, input);
dfa.Error(nvae);
throw nvae;
}
<endif>
>>

/** A state in a cyclic DFA; it's a special state and part of a big switch on
 * state.
 */
cyclicDFAState(decisionNumber,stateNumber,edges,needErrorClause,semPredState) ::= <<
{
<if(semPredState)>
<! get next lookahead symbol to test edges, then rewind !>
input.Rewind();
<endif>
<edges; separator="\nelse ">
<if(semPredState)>
<! return input cursor to state before we rewound !>
input.Seek(index<decisionNumber>_1);
<endif>
break;
}
>>

/** Just like a fixed DFA edge, test the lookahead and indicate what
 * state to jump to next if successful.
 */
cyclicDFAEdge(labelExpr, targetStateNumber, edgeNumber, predicates) ::= <<
if ((<labelExpr>)<if(predicates)> && (<predicates>)<endif>) {s = <targetStateNumber>;}<\n>
>>

/** An edge pointing at end-of-token; essentially matches any char;
 * always jump to the target.
 */
eotDFAEdge(targetStateNumber,edgeNumber, predicates) ::= <<
s = <targetStateNumber>;<\n>
>>

// D F A E X P R E S S I O N S

```

```

andPredicates(left,right) ::= "<left>&&<right>"

orPredicates(operands) ::= "<operands; separator=\\|\\>"

notPredicate(pred) ::= "!(<evalPredicate(...)>)"

evalPredicate(pred,description) ::= "<pred>"

evalSynPredicate(pred,description) ::= "EvaluatePredicate(<pred>_fragment)"

lookaheadTest(atom,k,atomAsInt) ::= "LA<decisionNumber>_<k>===<atom>"

/** Sometimes a lookahead test cannot assume that LA(k) is in a temp variable
 * somewhere. Must ask for the lookahead directly.
 */
isolatedLookaheadTest(atom,k,atomAsInt) ::= "input.LA(<k>)===<atom>"

lookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::= <%
(LA<decisionNumber>_<k><ge()><lower> && LA<decisionNumber>_<k><le()><upper>)
%>

isolatedLookaheadRangeTest(lower,upper,k,rangeNumber,lowerAsInt,upperAsInt) ::=
"(input.LA(<k>)<ge()><lower> && input.LA(<k>)<le()><upper>)"

le() ::= "\<="
ge() ::= ">="

setTest(ranges) ::= <<
<ranges; separator="||">
>>

// A T T R I B U T E S

attributeScope(scope) ::= <<
<if(scope.attributes)>
protected sealed partial class <scope.name>_scope
{
<scope.attributes: {it|public <it.decl>;}; separator="\n">

public <scope.name>_scope(<grammar.recognizerName> grammar) { OnCreated(grammar); }
partial void OnCreated(<grammar.recognizerName> grammar);
}
<if(scope.actions.scopeinit)>
protected void <scope.name>_scopeInit( <scope.name>_scope scope )
{
<scope.actions.scopeinit>
}
<else>

```

```

partial void <scope.name>_scopeInit( <scope.name>_scope scope );
<endif>
<if(scope.actions.scopeafter)>
protected void <scope.name>_scopeAfter( <scope.name>_scope scope )
{
    <scope.actions.scopeafter>
}
<else>
partial void <scope.name>_scopeAfter( <scope.name>_scope scope );
<endif>
protected readonly ListStack<<<scope.name>_scope> <scope.name>_stack = new
ListStack<<<scope.name>_scope>();
<endif>
>>

```

```

globalAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

```

```

ruleAttributeScope(scope) ::= <<
<attributeScope(...)>
>>

```

```

returnStructName(it) ::= "<it.name>_return"

```

```

returnType(ruleDescriptor) ::= <%
<if(ruleDescriptor.returnScope.attributes && ruleDescriptor.hasMultipleReturnValues)>
    <ruleDescriptor.grammar.recognizerName>.<ruleDescriptor:returnStructName()>
<elseif(ruleDescriptor.hasMultipleReturnValues)>
    <ruleReturnBaseType()>
<elseif(ruleDescriptor.hasSingleReturnValue)>
    <ruleDescriptor.singleValueReturnType>
<else>
    void
<endif>
%>

```

```

/** Generate the C# type associated with a single or multiple return
 * values.
 */

```

```

ruleLabelType(referencedRule) ::= <%
<if(referencedRule.hasMultipleReturnValues)>
    <ruleReturnBaseType()>
<elseif(referencedRule.hasSingleReturnValue)>
    <referencedRule.singleValueReturnType>
<else>
    void
<endif>

```

```

%>

delegateName(it) ::= <<
<if(it.label)><it.label><else>g<it.name><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) ::= <<
default(<typeName>)
>>

/** Define a rule label including default value */
ruleLabelDef(label) ::= <%
<ruleLabelType(label.referencedRule)> <label.label.text> = <initValue(ruleLabelType(label.referencedRule))>;
%>

/** Define a return struct for a rule if the code needs to access its
 * start/stop tokens, tree stuff, attributes, ... Leave a hole for
 * subgroups to stick in members.
 */
returnScope(scope) ::= <<
<if(scope.attributes && ruleDescriptor.hasMultipleReturnValues)>
<returnScopeModifier(grammar=grammar,ruleDescriptor=ruleDescriptor)> sealed partial class
<ruleDescriptor:returnStructName()> : <ruleReturnBaseType()><@ruleReturnInterfaces()>
{
<scope.attributes: {it|public <it.decl>;}; separator="\n">
<@ruleReturnMembers()>
}
<endif>
>>

ruleReturnBaseType() ::= <%
<if(TREE_PARSER)>Tree<else>Parser<endif>RuleReturnScope\<<labelType>>
%>

@returnScope.ruleReturnMembers() ::= <<
public <ruleDescriptor:returnStructName()>(<grammar.recognizerName> grammar) { OnCreated(grammar);}
partial void OnCreated(<grammar.recognizerName> grammar);
>>

parameterScope(scope) ::= <<
<scope.attributes: {it|<it.decl>;}; separator=" ">
>>

parameterAttributeRef(attr) ::= <<
<attr.name; format="id">

```

>>

```
parameterSetAttributeRef(attr,expr) ::= <<  
<attr.name; format="id"> =<expr>;  
>>
```

```
scopeAttributeRef(scope,attr,index,negIndex) ::= <%  
<if(negIndex)>  
<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id">  
<else>  
<if(index)>  
<scope>_stack[<index>].<attr.name; format="id">  
<else>  
<scope>_stack.Peek().<attr.name; format="id">  
<endif>  
<endif>  
>%
```

```
scopeSetAttributeRef(scope,attr,expr,index,negIndex) ::= <%  
<if(negIndex)>  
<scope>_stack[<scope>_stack.Count - <negIndex> - 1].<attr.name; format="id"> = <expr>;  
<else>  
<if(index)>  
<scope>_stack[<index>].<attr.name; format="id"> = <expr>;  
<else>  
<scope>_stack.Peek().<attr.name; format="id"> = <expr>;  
<endif>  
<endif>  
>%
```

```
/** $x is either global scope or x is rule with dynamic scope; refers  
* to stack itself not top of stack. This is useful for predicates  
* like {$function.Count>0 && $function::name.Equals("foo")}?  
*/
```

```
isolatedDynamicScopeRef(scope) ::= "<scope>_stack"
```

```
/** reference an attribute of rule; might only have single return value */  
ruleLabelRef(referencedRule,scope,attr) ::= <%  
<if(referencedRule.hasMultipleReturnValues)>  
(<scope>!=null?(<returnType(referencedRule)><scope>).<attr.name; format="id">:<initValue(attr.type)>)  
<else>  
<scope>  
<endif>  
>%
```

```
returnAttributeRef(ruleDescriptor,attr) ::= <%  
<if(ruleDescriptor.hasMultipleReturnValues)>  
retval.<attr.name; format="id">
```

```

<else>
<attr.name; format="id">
<endif>
%>

returnSetAttributeRef(ruleDescriptor,attr,expr) ::= <%
<if(ruleDescriptor.hasMultipleReturnValues)>
retval.<attr.name; format="id"> =<expr>;
<else>
<attr.name; format="id"> =<expr>;
<endif>
%>

/** How to translate $tokenLabel */
tokenLabelRef(label) ::= "<label>"

/** ids+=ID {$ids} or e+=expr {$e} */
listLabelRef(label) ::= "list_<label>"

// not sure the next are the right approach

tokenLabelPropertyRef_text(scope,attr) ::= "<scope>!=null?<scope>.Text:default(string)"
tokenLabelPropertyRef_type(scope,attr) ::= "<scope>!=null?<scope>.Type:0)"
tokenLabelPropertyRef_line(scope,attr) ::= "<scope>!=null?<scope>.Line:0)"
tokenLabelPropertyRef_pos(scope,attr) ::= "<scope>!=null?<scope>.CharPositionInLine:0)"
tokenLabelPropertyRef_channel(scope,attr) ::= "<scope>!=null?<scope>.Channel:0)"
tokenLabelPropertyRef_index(scope,attr) ::= "<scope>!=null?<scope>.TokenIndex:0)"
tokenLabelPropertyRef_tree(scope,attr) ::= "<scope>_tree"
tokenLabelPropertyRef_int(scope,attr) ::= "<scope>!=null?int.Parse(<scope>.Text):0)"

ruleLabelPropertyRef_start(scope,attr) ::= "<scope>!=null?((<labelType>)<scope>.Start):default(<labelType>)"
ruleLabelPropertyRef_stop(scope,attr) ::= "<scope>!=null?((<labelType>)<scope>.Stop):default(<labelType>)"
ruleLabelPropertyRef_tree(scope,attr) ::=
"<scope>!=null?((<ASTLabelType>)<scope>.Tree):default(<ASTLabelType>)"
ruleLabelPropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
<scope>!=null?(input.TokenStream.ToString(
input.TreeAdaptor.GetTokenStartIndex(<scope>.Start),
input.TreeAdaptor.GetTokenStopIndex(<scope>.Start))):default(string)
<else>
<scope>!=null?input.ToString(<scope>.Start,<scope>.Stop):default(string)
<endif>
%>

ruleLabelPropertyRef_st(scope,attr) ::= "<scope>!=null?<scope>.Template:null)"

/** Isolated $RULE ref ok in lexer as it's a Token */

```

```

lexerRuleLabel(label) ::= "<label>"

lexerRuleLabelPropertyRef_type(scope,attr) ::=
  "<scope>!=null?<scope>.Type:0)"

lexerRuleLabelPropertyRef_line(scope,attr) ::=
  "<scope>!=null?<scope>.Line:0)"

lexerRuleLabelPropertyRef_pos(scope,attr) ::=
  "<scope>!=null?<scope>.CharPositionInLine:-1)"

lexerRuleLabelPropertyRef_channel(scope,attr) ::=
  "<scope>!=null?<scope>.Channel:0)"

lexerRuleLabelPropertyRef_index(scope,attr) ::=
  "<scope>!=null?<scope>.TokenIndex:0)"

lexerRuleLabelPropertyRef_text(scope,attr) ::=
  "<scope>!=null?<scope>.Text:default(string))"

lexerRuleLabelPropertyRef_int(scope,attr) ::=
  "<scope>!=null?int.Parse(<scope>.Text):0)"

// Somebody may ref $template or $tree or $stop within a rule:
rulePropertyRef_start(scope,attr) ::= "retval.Start"
rulePropertyRef_stop(scope,attr) ::= "retval.Stop"
rulePropertyRef_tree(scope,attr) ::= "retval.Tree"
rulePropertyRef_text(scope,attr) ::= <%
<if(TREE_PARSER)>
input.TokenStream.ToString(
  input.TreeAdaptor.GetTokenStartIndex(retval.Start),
  input.TreeAdaptor.GetTokenStopIndex(retval.Start))
<else>
input.ToString(retval.Start,input.LT(-1))
<endif>
%>
rulePropertyRef_st(scope,attr) ::= "retval.Template"

lexerRulePropertyRef_text(scope,attr) ::= "Text"
lexerRulePropertyRef_type(scope,attr) ::= "_type"
lexerRulePropertyRef_line(scope,attr) ::= "state.tokenStartLine"
lexerRulePropertyRef_pos(scope,attr) ::= "state.tokenStartCharPositionInLine"
lexerRulePropertyRef_index(scope,attr) ::= "-1" // undefined token index in lexer
lexerRulePropertyRef_channel(scope,attr) ::= "_channel"
lexerRulePropertyRef_start(scope,attr) ::= "state.tokenStartCharIndex"
lexerRulePropertyRef_stop(scope,attr) ::= "(CharIndex-1)"
lexerRulePropertyRef_int(scope,attr) ::= "int.Parse(<scope>.Text)"

```

```

// setting $st and $tree is allowed in local rule. everything else
// is flagged as error
rule SetPropertyRef_tree(scope,attr,expr) ::= "retval.Tree = <expr>";
rule SetPropertyRef_st(scope,attr,expr) ::= "retval.Template =<expr>";

/** How to execute an action (only when not backtracking) */
execAction(action) ::= <%
<if(backtracking)>
if (<actions.(actionScope).synpredgate>)<\n>
{<\n>
<@indentedAction()><\n>
}
<else>
<action>
<endif>
%>

@execAction.indentedAction() ::= <<
<action>
>>

/** How to always execute an action even when backtracking */
execForcedAction(action) ::= "<action>"

// M I S C (properties, etc...)

bitset(name, words64) ::= <<
public static readonly BitSet <name> = new BitSet(new ulong[] {<words64: {it|<it>UL};separator=",">});
>>

codeFileExtension() ::= ".cs"

true_value() ::= "true"
false_value() ::= "false"

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/CSharp3.stg
No license file was found, but licenses were detected in source scan.

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\*/

/\*\* Templates for building ASTs during normal parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* The situation is not too bad as rewrite (->) usage makes ^ and !

\* invalid. There is no huge explosion of combinations.

\*/

```
finishedBacktracking(block) ::= <<
```

```
<if(!ruleDescriptor.isSynPred)>
```

```
<if(backtracking)>
```

```
if <actions.(actionScope).synpredgate>:
```

```
  <block>
```

```
<else>
```

```
<block>
```

```
<endif>
```

```
<endif>
```

```
>>
```

```
@ruleBody.setErrorReturnValue() ::= <<
```

```
retval.tree = self._adaptor.errorNode(self.input, retval.start, self.input.LT(-1), re)
```

```
>>
```

```
// TOKEN AST STUFF
```

```

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<super.tokenRef(...)>
<finishedBacktracking({
<label>_tree = <createNodeFromToken(...)>
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefBang(...)>
<listLabel(elem=label,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having

```

```

// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <%
<super.matchSet(postmatchCode={<finishedBacktracking({self._adaptor.addChild(root_0,
<createNodeFromToken(...)>)}>}, ...)>
%>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<matchSet(...)>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= "<super.matchSet(...)>"

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
<if(label)>
<label> = self.input.LT(1)<\n>
<endif>
<super.matchSet(postmatchCode={<finishedBacktracking({root_0 =
self._adaptor.becomeRoot(<createNodeFromToken(...)>, root_0)}>}, ...)>
>>

// RULE REF AST

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({self._adaptor.addChild(root_0, <label>.tree)}>)>
>>

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<finishedBacktracking({root_0 = self._adaptor.becomeRoot(<label>.tree, root_0)}>)>
>>

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.tree})>

```

```

>>

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabel(label, {<label>.tree})>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.tree})>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions={ }) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
self._adaptor.addChild(root_0, <label>_tree)
})>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
<super.wildcard(...)>
<finishedBacktracking({
<label>_tree = self._adaptor.createWithPayload(<label>)
root_0 = self._adaptor.becomeRoot(<label>_tree, root_0)
})>
>>

createNodeFromToken(label,terminalOptions={ }) ::= <%
<if(terminalOptions.node)>
<terminalOptions.node>(<label>) <! new MethodNode(IDLabel) !>
<else>
self._adaptor.createWithPayload(<label>)
<endif>
%>

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<finishedBacktracking({
retval.tree = self._adaptor.rulePostProcessing(root_0)
self._adaptor.setTokenBoundaries(retval.tree, retval.start, retval.stop)
})>

```

>>

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/ASTParser.stg

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\*/

/\*\* Templates for building ASTs during tree parsing.

\*

\* Deal with many combinations. Dimensions are:

\* Auto build or rewrite

\* no label, label, list label (label/no-label handled together)

\* child, root

\* token, set, rule, wildcard

\*

\* Each combination has its own template except that label/no label

\* is combined into tokenRef, ruleRef, ...

\*/

finishedBacktracking(block) ::= <<

```

<if(backtracking)>
if <actions.(actionScope).synpredgate>:
  <block>
<else>
<block>
<endif>
>>

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
_first_0 = None
_last = None<\n>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel, treeLevel) ::= <<
<finishedBacktracking({
<if(rewriteMode)>
retval.tree = _first_0
if self._adaptor.getParent(retval.tree) is not None and self._adaptor.isNil(self._adaptor.getParent(retval.tree)):
  retval.tree = self._adaptor.getParent(retval.tree)
<endif>
})>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
  enclosingTreeLevel, treeLevel) ::= <<
_last = self.input.LT(1)
_save_last_<treeLevel> = _last
_first_<treeLevel> = None
<if(!rewriteMode)>
root_<treeLevel> = self._adaptor.nil()<\n>
<endif>
<root:element()>
<if(rewriteMode)>
<finishedBacktracking({
<if(root.el.rule)>
if _first_<enclosingTreeLevel> is None:
  _first_<enclosingTreeLevel> = <root.el.label>.tree<\n>
<else>
if _first_<enclosingTreeLevel> is None:
  _first_<enclosingTreeLevel> = <root.el.label><\n>

```

```

<endif>
})>
<endif>
<actionsAfterRoot:element()>
<if(nullableChildList)>
if self.input.LA(1) == DOWN:
    self.match(self.input, DOWN, None)
    <children:element()>
    self.match(self.input, UP, None)

<else>
self.match(self.input, DOWN, None)
<children:element()>
self.match(self.input, UP, None)<\n>
<endif>
<if(!rewriteMode)>
self._adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>)<\n>
<endif>
_last = _save_last_<treeLevel>

>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={}) ::= <<
_last = self.input.LT(1)
<super.tokenRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({
<if(terminalOptions.node)>
<label>_tree = <terminalOptions.node><(<label>)
<else>
<label>_tree = self._adaptor.dupNode(<label>)
<endif><\n>
self._adaptor.addChild(root_<treeLevel>, <label>_tree)
})>
<else> <! rewrite mode !>
<finishedBacktracking({
if _first_<treeLevel> is None:

```

```

    _first_<treeLevel> = <label><\n>
  })>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={ }) ::= <<
  _last = self.input.LT(1)
  <super.tokenRef(...)>
  <if(!rewriteMode)>
  <finishedBacktracking({
  <if(terminalOptions.node)>
  <label>_tree = <terminalOptions.node><(<label>)
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)
  <endif><\n>
  root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
  })>
  <endif>
  >>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={ }) ::= <<
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={ }) ::= <<
  _last = self.input.LT(1)
  <super.wildcard(...)>
  <if(!rewriteMode)>
  <finishedBacktracking({
  <label>_tree = self._adaptor.dupTree(<label>)
  self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  })>
  <else> <! rewrite mode !>
  <finishedBacktracking({
  if _first_<treeLevel> is None:
    _first_<treeLevel> = <label>
  })>
  <endif>

```

```

>>

// SET AST
matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
  _last = self.input.LT(1)
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <finishedBacktracking({
  <if(terminalOptions.node)>
  <label>_tree = <terminalOptions.node>(<label>)
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)
  <endif><\n>
  self._adaptor.addChild(root_<treeLevel>, <label>_tree)
  })>
  <endif>
  }, ...)>
>>

matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
  <matchSet(...)>
  <noRewrite(...)> <! set return tree !>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
  _last = self.input.LT(1)
  <super.matchSet(...)>
>>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={}) ::= <<
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <finishedBacktracking({
  <if(terminalOptions.node)>
  <label>_tree = <terminalOptions.node>(<label>)
  <else>
  <label>_tree = self._adaptor.dupNode(<label>)
  <endif><\n>
  root_<treeLevel> = self._adaptor.becomeRoot(<label>_tree, root_<treeLevel>)
  })>
  <endif>
  }, ...)>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<

```

```

_last = self.input.LT(1)
<super.ruleRef(...)>
<finishedBacktracking({
<if(!rewriteMode)>
self._adaptor.addChild(root_<treeLevel>, <label>.tree)
<else> <! rewrite mode !>
if _first_<treeLevel> is None:
    _first_<treeLevel> = <label>.tree<\n>
<endif>
})>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.tree})>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRef(...)>
<if(!rewriteMode)>
<finishedBacktracking({
root_<treeLevel> = self._adaptor.becomeRoot(<label>.tree, root_<treeLevel>)
})>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.tree})>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
_last = self.input.LT(1)
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */

```

```

ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefRuleRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
  _last = self.input.LT(1)
  <super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,scope,terminalOptions={ }) ::= <<
  <if(terminalOptions.node)>
  <terminalOptions.node>(stream_<token>.nextNode())
  <else>
  stream_<token>.nextNode()
  <endif>
>>

ruleCleanUp() ::= <<
  <super.ruleCleanUp()>
  <if(!rewriteMode)>
  <finishedBacktracking({
  retval.tree = self._adaptor.rulePostProcessing(root_0)
  })>
  <endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python3/ASTTreeParser.stg

```

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```

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*/

```

```

/** Templates for building ASTs during normal parsing.
*
* Deal with many combinations. Dimensions are:
* Auto build or rewrite
* no label, label, list label (label/no-label handled together)
* child, root
* token, set, rule, wildcard
*
* The situation is not too bad as rewrite (->) usage makes ^ and !
* invalid. There is no huge explosion of combinations.
*/

```

```

@rule.setErrorReturnValue() ::= <<
retval.Tree = (<ASTLabelType>)adaptor.ErrorNode(input, retval.Start, input.LT(-1), re);
<! System.out.WriteLine("<ruleName> returns "+((CommonTree)retval.tree).toStringTree()); !>
>>

```

```

// TOKEN AST STUFF

```

```

/** ID and output=AST */
tokenRef(token,label,elementIndex,terminalOptions) ::= <%
<super.tokenRef(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)><\n>if (state.backtracking == 0) {<endif>
<\n><label>_tree = <createNodeFromToken(...)>;
<\n>adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)><\n>}<endif>
<endif>

```

```

%>

/** ID! and output=AST (same as plain tokenRef) */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= "<super.tokenRef(...)>"

/** ID^ and output=AST */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions) ::= <%
<super.tokenRef(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)><\n>if (<actions.(actionScope).synpredgate>) {<endif>
<\n><label>_tree = <createNodeFromToken(...)>;
<\n>root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)><\n>}<endif>
<endif>
%>

/** ids+=ID! and output=AST */
tokenRefBangAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** label+=TOKEN when output=AST but not rewrite alt */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRef(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

/** Match label+=TOKEN^ when output=AST but not rewrite alt */
tokenRefRuleRootAndListLabel(token,label,terminalOptions,elementIndex) ::= <<
<tokenRefRuleRoot(...)>
<listLabelElem(elem=label,elemType=labelType,...)>
>>

// SET AST

// the match set stuff is interesting in that it uses an argument list
// to pass code to the default matchSet; another possible way to alter
// inherited code. I don't use the region stuff because I need to pass
// different chunks depending on the operator. I don't like making
// the template name have the operator as the number of templates gets
// large but this is the most flexible--this is as opposed to having
// the code generator call matchSet then add root code or ruleroot code
// plus list label plus ... The combinations might require complicated
// rather than just added on code. Investigate that refactoring when
// I have more time.

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<

```

```

<super.matchSet(postmatchCode={ <if(!ruleDescriptor.isSynPred)><if(backtracking)>if
(<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <createNodeFromToken(...)>);<endif>},
...)>
>>

```

```

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
<matchSet(...)>
>>

```

```

matchSetBang(s,label,elementIndex,terminalOptions,postmatchCode) ::= "<super.matchSet(...)>"

```

```

// note there is no matchSetTrack because -> rewrites force sets to be
// plain old blocks of alts: (A|B|...|C)

```

```

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
<if(label)>
<label>=(<labelType>)input.LT(1);
<endif>
<super.matchSet(postmatchCode={ <if(!ruleDescriptor.isSynPred)><if(backtracking)>if
(<actions.(actionScope).synpredgate>) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<createNodeFromToken(...)>, root_0);<endif>}, ...)>
>>

```

```

// RULE REF AST

```

```

/** rule when output=AST */
ruleRef(rule,label,elementIndex,args,scope) ::= <%
<super.ruleRef(...)>
<if(!ruleDescriptor.isSynPred)>
<\n><if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>adaptor.AddChild(root_0, <label>.Tree);
<endif>
%>

```

```

/** rule! is same as normal rule ref */
ruleRefBang(rule,label,elementIndex,args,scope) ::= "<super.ruleRef(...)>"

```

```

/** rule^ */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) <endif>root_0 =
(<ASTLabelType>)adaptor.BecomeRoot(<label>.Tree, root_0);
>>

```

```

/** x+=rule when output=AST */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabelElem(elem={ <label>.Tree },elemType=ASTLabelType,...)>
>>

```

```

/** x+=rule! when output=AST is a rule ref with list addition */
ruleRefBangAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefBang(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

/** x+=rule^ */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<listLabelElem(elem={<label>.Tree},elemType=ASTLabelType,...)>
>>

// WILDCARD AST

wildcard(token,label,elementIndex,terminalOptions) ::= <<
<super.wildcard(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
adaptor.AddChild(root_0, <label>_tree);
<if(backtracking)>}<endif>
<endif>
>>

wildcardBang(label,elementIndex) ::= "<super.wildcard(...)>"

wildcardRuleRoot(token,label,elementIndex,terminalOptions) ::= <<
<super.wildcard(...)>
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
<label>_tree = (<ASTLabelType>)adaptor.Create(<label>);
root_0 = (<ASTLabelType>)adaptor.BecomeRoot(<label>_tree, root_0);
<if(backtracking)>}<endif>
<endif>
>>

createNodeFromToken(label,terminalOptions) ::= <%
<if(terminalOptions.node)>
new
<terminalOptions.node><if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>
<else>
(<ASTLabelType>)adaptor.Create(<if(terminalOptions.type)><terminalOptions.type>,<endif><label><if(terminalOptions.text)>,<terminalOptions.text; format="string"><endif>)
<endif>
%>

```

```

ruleCleanUp() ::= <<
<super.ruleCleanUp()>
<if(backtracking)>if (<actions.(actionScope).synpredgate>) {<endif>
retval.Tree = (<ASTLabelType>)adaptor.RulePostProcessing(root_0);
adaptor.SetTokenBoundaries(retval.Tree, retval.Start, retval.Stop);
<if(backtracking)>}<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/CSharp3/ASTParser.stg

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```

```

*/

```

```

/** Templates for building ASTs during tree parsing.

```

```

*

```

```

* Deal with many combinations. Dimensions are:

```

```

* Auto build or rewrite

```

```

* no label, label, list label (label/no-label handled together)

```

```

* child, root

```

```

* token, set, rule, wildcard

```

```

*
* Each combination has its own template except that label/no label
* is combined into tokenRef, ruleRef, ...
*/

/* addition memVars for returnscopes */
@returnScopeInterface.memVars() ::= <<
/* ASTTreeParser returnScopeInterface.memVars */
<recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

/** the interface of returnScope methodsDecl */
@returnScopeInterface.methodsDecl() ::= <<
/* ASTTreeParser returnScopeInterface.methodsDecl */
- (<recognizer.ASTLabelType; null="CommonTree"> *)getTree;
- (void) setTree:(<recognizer.ASTLabelType; null="CommonTree"> *)aTree;<\n>
>>

/** the implementation of returnScope methods */
@returnScope.methods() ::= <<
/* ASTTreeParser returnScope.methods */
- (<ASTLabelType> *)getTree
{
    return tree;
}

- (void) setTree:(<ASTLabelType> *)aTree
{
    if (tree != aTree) {
        if (tree != nil) [tree release];
        if (aTree != nil) [aTree retain];
        tree = aTree;
    }
}

- (void) dealloc
{
    [self setTree:nil];
    [super dealloc];
}

@synthesize tree;
>>

@returnScopeProperties() ::= <<
@property (retain) <recognizer.ASTLabelType; null="CommonTree"> *tree;
>>

```



```

    <children:element()>
    [self match:input TokenType:TokenTypeUP Follow:nil]; <checkRuleBacktrackFailure()>
  }
<else>
[self match:input TokenType:TokenTypeDOWN Follow:nil]; <checkRuleBacktrackFailure()>
<children:element()>
[self match:input TokenType:TokenTypeUP Follow:nil]; <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
[treeAdaptor addChild:root_<treeLevel> toTree:root_<enclosingTreeLevel>];
<endif>
_last = _save_last_<treeLevel>;
}<\n>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
  <label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
  <label>_tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
<endif><\n>
  [treeAdaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==nil ) _first_<treeLevel> = <label>;
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions) ::= <<

```

```

/* ASTTreeParser tokenRefAndListLabel */
<tokenRef(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex) ::= <<
/* ASTTreeParser tokenRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[treeAdaptor dupNode:<label>];
<endif><\n>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>}<endif>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser tokenRefRuleRootAndListLabel */
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
>>

/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions) ::= <<
/* ASTTreeParser wildcard */
_last = (<ASTLabelType> *)[input LT:1];
<super.wildcard(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<label>_tree = (<ASTLabelType> *)[adaptor dupTree:<label>];
[adaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>}<endif>
<else> <! rewrite mode !>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>;
<endif>
>>

// SET AST

matchSet(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<

```

```

/* ASTTreeParser matchSet */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif><\n>
[adaptor addChild:<label>_tree toTree:root_<treeLevel>];
<if(backtracking)>\}<endif>
<endif>
}, ...
)>
>>

matchRuleBlockSet(s,label,terminalOptions,elementIndex,postmatchCode,treeLevel="0") ::= <<
/* ASTTreeParser matchRuleBlockSet */
<matchSet(...)>
<noRewrite(...)> <! set return tree !>
>>

matchSetBang(s,label,terminalOptions,elementIndex,postmatchCode) ::= <<
/* ASTTreeParser matchSetBang */
_last = (<ASTLabelType> *)[input LT:1];
<super.matchSet(...)>
>>

matchSetRuleRoot(s,label,terminalOptions,elementIndex,debug) ::= <<
/* ASTTreeParser matchSetRuleRoot */
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = [<terminalOptions.node> new<terminalOptions.node>:<label>];
<else>
<label>_tree = (<ASTLabelType> *)[adaptor dupNode:<label>];
<endif><\n>
root_<treeLevel> = (<ASTLabelType> *)[adaptor becomeRoot:<label>_tree old:root_<treeLevel>];
<if(backtracking)>\}<endif>
<endif>
}, ...
)>
>>

// RULE REF AST

```

```

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRef */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
  [treeAdaptor addChild:<label>.tree toTree:root_<treeLevel>];
<else> <! rewrite mode !>
if ( _first_<treeLevel> == nil ) _first_<treeLevel> = <label>.tree;
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefAndListLabel */
<ruleRef(...)>
<! <listLabel(elem = "["+label+" getTree]",...)> !>
<listLabel(elem = {[<label> getTree]},...)>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRoot */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( state.backtracking == 0 ) <endif>
root_<treeLevel> = (<ASTLabelType> *)[treeAdaptor becomeRoot:<label>.tree old:root_<treeLevel>];
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootAndListLabel */
<ruleRefRuleRoot(...)>
<listLabel(elem = {[<label> getTree]},...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefTrack */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<

```

```

/* ASTTreeParser ruleRefTrackAndListLabel */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefTrackAndListLabel(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrack */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRootTrack(...)>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
/* ASTTreeParser ruleRefRuleRootTrackAndListLabel */
_last = (<ASTLabelType> *)[input LT:1];
<super.ruleRefRuleRootTrackAndListLabel(...)>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,terminalOptions,scope) ::= <<
/* ASTTreeParser createRewriteNodeFromElement */
<if(terminalOptions.node)>
<! new <terminalOptions.node>(stream_<token>.nextNode()) !>
[[[<terminalOptions.node>(stream_<token> alloc] init] nextNode];
<else>
<! stream_<token>.nextNode() !>
[stream_<token> nextNode]
<endif>
>>

ruleCleanup() ::= <<
/* ASTTreeParser ruleCleanup */
<super.ruleCleanup()>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = (<ASTLabelType> *)[treeAdaptor rulePostProcessing:root_0];
<if(backtracking)>}<endif>
<endif>
>>

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/ObjC/ASTTreeParser.stg

```

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

```
/*  
[The "BSD license"]  
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http://www.temporal-wave.com  
http://www.linkedin.com/in/jimidle
```

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```
*/  
/** Add an adaptor property that knows how to build trees */  
@headerFile.members() ::= <<  
/* @headerFile.members() */  
pANTLR3_BASE_TREE_ADAPTOR adaptor;  
pANTLR3_VECTOR_FACTORY vectors;  
/* End @headerFile.members() */  
>>  
  
/** Install the tree adaptor interface pointer and anything else that  
* tree parsers and producers require.  
*/  
@genericParser.apifuncs() ::= <<  
<if(PARSER)>  
ADAPTOR = ANTLR3_TREE_ADAPTORNew(instream->tstream->tokenSource->strFactory);<\n>  
<endif>  
ctx->vectors = antlr3VectorFactoryNew(0);  
>>
```

```

@genericParser.cleanup() ::= <<
ctx->vectors->close(ctx->vectors);
<if(PARSER)>
/* We created the adaptor so we must free it
*/
ADAPTOR->free(ADAPTOR);
<endif>
>>

@returnScope.ruleReturnMembers() ::= <<

<super.ASTLabelType()> tree;

>>

/** Add a variable to track rule's return AST */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<ASTLabelType> root_0;<\n>
>>

ruleInitializations() ::= <<
<super.ruleInitializations()>
root_0 = NULL;<\n>
>>

ruleLabelDefs() ::= <<
<super.ruleLabelDefs()>
<ruleDescriptor.tokenLabels:{it | <ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <ASTLabelType> <it.label.text>_tree;}; separator="\n">
<ruleDescriptor.allTokenRefsInAltsWithRewrites
: {it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;}; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
: {it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;}; separator="\n">
>>

/* Note that we defer the actual creation of any rewrite streams we need here and just initialize
* them to NULL. This saves creating huge numbers of rewrite streams that cannot be used as only
* one alt will be taken in a rule, but we are declaring all the streams here. So we define
* a macro that conatins the create code, then use this macro later to check if the stream
* has been created yet. Checking for NULL is almost free in C.
*/
ruleLabelInitializations() ::= <<
<super.ruleLabelInitializations()>
<ruleDescriptor.tokenLabels:{it | <it.label.text>_tree = NULL;}; separator="\n">
<ruleDescriptor.tokenListLabels:{it | <it.label.text>_tree = NULL;}; separator="\n">

<ruleDescriptor.allTokenRefsInAltsWithRewrites

```

```

:{it | stream_<it> = NULL;
#define CREATE_stream_<it> if (stream_<it> == NULL) {stream_<it> =
antlr3RewriteRule<rewriteElementType>StreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"token
<it>"); \} }; separator="\n">
<ruleDescriptor.allRuleRefsInAltsWithRewrites
:{it | stream_<it> = NULL;
#define CREATE_stream_<it> if (stream_<it> == NULL) {stream_<it> =
antlr3RewriteRuleSubtreeStreamNewAE(ADAPTOR, RECOGNIZER, (pANTLR3_UINT8)"rule <it>"); \} };
separator="\n">

<if(ruleDescriptor.hasMultipleReturnValues)>
retval.tree = NULL;
<endif>
>>

/** a rule label including default value */
ruleLabelInitVal(label) ::= <<
<super.ruleLabelInitVal(...)>
<label.label.text>.tree = NULL;
>>

/** When doing auto AST construction, we must define some variables;
 * These should be turned off if doing rewrites. This must be a "mode"
 * as a rule could have both rewrite and AST within the same alternative
 * block.
 */
@alt.declarations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<endif>
<endif>
>>

@alt.initializations() ::= <<
<if(autoAST)>
<if(outerAlt)>
<if(!rewriteMode)>
root_0 = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));<\n>
<endif>
<endif>
<endif>
>>

// Tracking Rule Elements
//
/** ID but track it for use in a rewrite rule */

```

```

tokenRefTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)> <! Track implies no auto AST construction!>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<token>;
stream_<token>->add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><\n>
>>

/** ids+=ID and track it for use in a rewrite rule; adds to ids *and*
* to the tracking list stream_ID for use in the rewrite.
*/
tokenRefTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefTrack(...)>
<listLabel(elem=label,...)>
>>

/** ^(ID ...) track for rewrite */
tokenRefRuleRootTrack(token,label,elementIndex,terminalOptions) ::= <<
<tokenRefBang(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>CREATE_stream_<token>; stream_<token>-
>add(stream_<token>, <label>, NULL);<if(backtracking)> }<endif><\n>
>>

wildcardTrack(label,elementIndex) ::= <<
<super.wildcard(...)>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefTrack(...)>
<listLabelTrack(...)>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRoot(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) { <endif>CREATE_stream_<rule.name>;
stream_<rule.name>->add(stream_<rule.name>, <label>.tree, NULL);<if(backtracking)> }<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRefRuleRootTrack(...)>

```

```
<listLabelAST(...)>
```

```
>>
```

```
// RULE REF AST
```

```
/** Match ^(label+=TOKEN ...) track for rewrite */
```

```
tokenRefRuleRootTrackAndListLabel(token,label,elementIndex,terminalOptions) ::= <<
```

```
<tokenRefRuleRootTrack(...)>
```

```
<listLabel(elem=label,...)>
```

```
>>
```

```
/* How to accumulate lists when we are doing rewrite tracking...
```

```
*/
```

```
listLabelTrack(label) ::= <<
```

```
/* listLabelTrack(label)
```

```
*/
```

```
if (list_<label> == NULL)
```

```
{
```

```
list_<label>=ctx->vectors->newVector(ctx->vectors);
```

```
}
```

```
list_<label>->add(list_<label>, <label>.tree, NULL);
```

```
>>
```

```
/* How to accumulate lists of rule outputs (only allowed with AST
```

```
* option but if the user is going to walk the tree, they will want
```

```
* all their custom elements from rule returns.
```

```
*
```

```
* Normally, we use inline structures (which the compiler lays down
```

```
* code to copy from heap allocations. However, here we want to accumulate copies
```

```
* of the returned structures because we are adding them to a list. This only makes sense if the
```

```
* grammar is not rewriting the tree as a tree rewrite only preserves the tree, not the object/structure
```

```
* returned from the rule. The rewrite will extract the tree pointer. However, if we are not going to
```

```
* do a tree re-write, then the user may wish to iterate the structures returned by the rule in
```

```
* action code and will expect the user defined returns[] elements to be available when they do this.
```

```
* Hence we cannot just preserve the tree that was returned. So, we must copy the local structure and provide
```

```
* a function that can free the allocated space. We cannot know how to free user allocated elements and
```

```
* presume that the user will know to do this using their own factories for the structures they allocate.
```

```
*/
```

```
listLabelAST(label) ::= <<
```

```
if (list_<label> == NULL)
```

```
{
```

```
list_<label>=ctx->vectors->newVector(ctx->vectors);
```

```
}
```

```
{
```

```

RETURN_TYPE_<label> * tcopy;

tcopy = (RETURN_TYPE_<label> *)ANTLR3_MALLOC(sizeof(RETURN_TYPE_<label>)); /* Note no
memory allocation checks! */
ANTLR3_MEMCPY((void *)tcopy, (const void *)<label>, sizeof(RETURN_TYPE_<label>));
list_<label>->add(list_<label>, (void *)tcopy, freeScope); /* Add whatever the return type is */<\n>
}
>>

// R e w r i t e

rewriteCode(
alts,
description,
referencedElementsDeep, // ALL referenced elements to right of ->
referencedTokenLabels,
referencedTokenListLabels,
referencedRuleLabels,
referencedRuleListLabels,
referencedWildcardLabels,
referencedWildcardListLabels,
rewriteBlockLevel,
enclosingTreeLevel,
treeLevel) ::=
<<

/* AST REWRITE
* elements      : <referencedElementsDeep; separator=", ">
* token labels  : <referencedTokenLabels; separator=", ">
* rule labels   : <referencedRuleLabels; separator=", ">
* token list labels : <referencedTokenListLabels; separator=", ">
* rule list labels : <referencedRuleListLabels; separator=", ">
*/
<if(backtracking)>
if ( <actions.(actionScope).synpredgate> ) <\n>
<endif>
{
<rewriteCodeLabelsDecl()>
<rewriteCodeLabelsInit()>
root_0    = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
<prevRuleRootRef()>.tree = root_0;
<alts:rewriteAlt(); separator="else ">
<if(TREE_PARSER)>
<if(rewriteMode)>
<prevRuleRootRef()>.tree = (<ASTLabelType>)(ADAPTOR->rulePostProcessing(ADAPTOR, root_0));
INPUT->replaceChildren(INPUT, ADAPTOR->getParent(ADAPTOR, retval.start),
ADAPTOR->getChildIndex(ADAPTOR, retval.start),
ADAPTOR->getChildIndex(ADAPTOR, _last),

```

```

        retval.tree);
<endif>
<endif>
<prevRuleRootRef()>.tree = root_0; // set result root
<rewriteCodeLabelsFree()>

}
>>

rewriteCodeLabelsDecl() ::= <<
<referencedTokenLabels
  :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
  separator="\n"
>
<referencedTokenListLabels
  :{it | pANTLR3_REWRITE_RULE_<rewriteElementType>_STREAM stream_<it>;};
  separator="\n"
>
<referencedRuleLabels
  :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
  separator="\n"
>
<referencedRuleListLabels
  :{it | pANTLR3_REWRITE_RULE_SUBTREE_STREAM stream_<it>;};
  separator="\n"
>
>>

rewriteCodeLabelsInit() ::= <<
<referencedTokenLabels
  :{it | stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEE(ADAPTOR, RECOGNIZER,
  (pANTLR3_UINT8)"token <it>", <it>);};
  separator="\n"
>
<referencedTokenListLabels
  :{it | stream_<it>=antlr3RewriteRule<rewriteElementType>StreamNewAEV(ADAPTOR, RECOGNIZER,
  (pANTLR3_UINT8)"token <it>", list_<it>); };
  separator="\n"
>
<referencedRuleLabels
  :{it | stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEE(ADAPTOR, RECOGNIZER,
  (pANTLR3_UINT8)"token <it>", <it>.tree != NULL ? <it>.tree : NULL);};
  separator="\n"
>
<referencedRuleListLabels
  :{it | stream_<it>=antlr3RewriteRuleSubtreeStreamNewAEV(ADAPTOR, RECOGNIZER,
  (pANTLR3_UINT8)"token <it>", list_<it>);};
  separator="\n"

```

```

>
>>
rewriteCodeLabelsFree() ::= <<
<referencedTokenLabels
:{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
<referencedTokenListLabels
:{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
<referencedRuleLabels
:{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
<referencedRuleListLabels
:{it | if (stream_<it> != NULL) stream_<it>->free(stream_<it>); };
separator="\n"
>
>>

/** Generate code for an optional rewrite block; note it uses the deep ref'd element
 * list rather shallow like other blocks.
 */
rewriteOptionalBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=
<<
// <fileName>:<description>
{
if ( <referencedElementsDeep:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) } );
separator="|| "> )
{
<alt>
}
<referencedElementsDeep:{el | if ( stream_<el> != NULL) stream_<el>->reset(stream_<el>);<n>}>
}<n>
>>

rewriteClosureBlock(
alt,
rewriteBlockLevel,
referencedElementsDeep, // all nested refs
referencedElements, // elements in immediately block; no nested blocks
description) ::=

```

```

<<
// <fileName>:<description>
{
  while ( <referencedElements:{el | (stream_<el> != NULL && stream_<el>->hasNext(stream_<el>)) }; separator="||
"> )
  {
    <alt>
  }
  <referencedElements:{el | if (stream_<el> != NULL) stream_<el>->reset(stream_<el>);<\n>}>
}<\n>
>>
RewriteEarlyExitException() ::=
<<
CONSTRUCTEX();
EXCEPTION->type      = ANTLR3_REWRITE_EARLY_EXCEPTION;
EXCEPTION->name      = (void *)ANTLR3_REWRITE_EARLY_EXCEPTION_NAME;
>>
rewritePositiveClosureBlock(
  alt,
  rewriteBlockLevel,
  referencedElementsDeep, // all nested refs
  referencedElements, // elements in immediately block; no nested blocks
  description) ::=
<<
if ( <referencedElements:{el | (stream_<el> == NULL || !stream_<el>->hasNext(stream_<el>)) }; separator="|| "> )
{
  <RewriteEarlyExitException()>
}
else
{
  while ( <referencedElements:{el | (stream_<el>->hasNext(stream_<el>)) }; separator="|| "> ) {
    <alt>
  }
  <referencedElements:{el | stream_<el>->reset(stream_<el>);<\n>}>
}
>>

rewriteAlt(a) ::= <<
// <a.description>
<if(a.pred)>
if ( <a.pred> )
{
  <a.alt>
}<\n>
<else>
{
  <a.alt>
}<\n>

```

```

<endif>
>>

/** For empty rewrites: "r : ... -> ;" */
rewriteEmptyAlt() ::= "root_0 = NULL; /* \<-- rewriteEmptyAlt() */"

rewriteTree(root,children,description,enclosingTreeLevel,treeLevel) ::= <<
// <fileName>:<description>
{
  <ASTLabelType> root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->nilNode(ADAPTOR));
  <root:rewriteElement()>
  <children:rewriteElement()>
  ADAPTOR->addChild(ADAPTOR, root_<enclosingTreeLevel>, root_<treeLevel>);
}<\n>
>>

rewriteElementList(elements) ::= "<elements:rewriteElement()>"

rewriteElement(e) ::= <<
<@pregen()>
<e.el>
>>

/** Gen ID or ID[args] */
rewriteTokenRef(token,elementIndex,terminalOptions,args) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createRewriteNodeFromElement(...)>);<\n>
>>

/** Gen $label ... where defined via label=ID */
rewriteTokenLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));<\n>
>>

/** Gen $label ... where defined via label+=ID */
rewriteTokenListLabelRef(label,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextNode(stream_<label>));<\n>
>>

/** Gen ^($label ...) */
rewriteTokenLabelRefRoot(label,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRootToken(ADAPTOR, stream_<label> == NULL ?
NULL : stream_<label>->nextToken(stream_<label>, root_<treeLevel>));<\n>
>>

/** Gen ^($label ...) where label+=... */
rewriteTokenListLabelRefRoot ::= rewriteTokenLabelRefRoot

```

```

/** Gen ^(ID ...) or ^(ID[args] ...) */
rewriteTokenRefRoot(token,elementIndex,terminalOptions,args) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR,
<createRewriteNodeFromElement(...)>, root_<treeLevel>));<\n>
>>

rewriteImaginaryTokenRef(args,token,terminalOptions,elementIndex) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <createImaginaryNode(tokenType=token, ...)>);<\n>
>>

rewriteImaginaryTokenRefRoot(args,token,terminalOptions,elementIndex) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR,
<createImaginaryNode(tokenType=token, ...)>, root_<treeLevel>));<\n>
>>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
root_0 = <action>;<\n>
>>

/** What is the name of the previous value of this rule's root tree? This
* let's us refer to $rule to mean previous value. I am reusing the
* variable 'tree' sitting in retval struct to hold the value of root_0 right
* before I set it during rewrites. The assign will be to retval.tree.
*/
prevRuleRootRef() ::= "retval"

rewriteRuleRef(rule,dup) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<rule> == NULL ? NULL : stream_<rule>-
>nextTree(stream_<rule>));<\n>
>>

rewriteRuleRefRoot(rule,dup) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<rule> == NULL ? NULL
: stream_<rule>->nextNode(stream_<rule>), root_<treeLevel>));<\n>
>>

rewriteNodeAction(action) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, <action>);<\n>
>>

rewriteNodeActionRoot(action) ::= <<
root_<treeLevel> = (<ASLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, <action>, root_<treeLevel>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel=rule */
rewriteRuleLabelRef(label) ::= <<

```

```

ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

/** Gen $ruleLabel ... where defined via ruleLabel+=rule */
rewriteRuleListLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel=rule */
rewriteRuleLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot(ADAPTOR, stream_<label> == NULL ? NULL
: stream_<label>->nextNode(stream_<label>), root_<treeLevel>));<\n>
>>

/** Gen ^($ruleLabel ...) where ruleLabel+=rule */
rewriteRuleListLabelRefRoot(label) ::= <<
root_<treeLevel> = (<ASTLabelType>)(ADAPTOR->becomeRoot((<ASTLabelType>)(stream_<label> == NULL
? NULL : stream_<label>->nextNode(stream_<label>), root_<treeLevel>));<\n>
>>

rewriteWildcardLabelRef(label) ::= <<
ADAPTOR->addChild(ADAPTOR, root_<treeLevel>, stream_<label> == NULL ? NULL : stream_<label>-
>nextTree(stream_<label>));<\n>
>>

createImaginaryNode(tokenType,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<! new MethodNode(IDLabel, args) !>
<terminalOptions.node>New(<tokenType><if(args)>, <args; separator=", "><endif>)
<else>
<if(args)>

#if <length(args)> == 2
(<ASTLabelType>)ADAPTOR->createTypeTokenText(ADAPTOR, <tokenType>, TOKTEXT(<args; separator=",
">))
#else
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)<args;
separator=", ">)
#endif

<else>
(<ASTLabelType>)ADAPTOR->createTypeText(ADAPTOR, <tokenType>, (pANTLR3_UINT8)"<tokenType>")
<endif>
<endif>
>>

```

```

createRewriteNodeFromElement(token,terminalOptions,args) ::= <<
<if(terminalOptions.node)>
<terminalOptions.node>New(stream_<token>->nextToken(stream_<token>)<if(args)>, <args; separator=",
"><endif>)
<else>
<if(args)> <! must create new node from old !>

#if <length(args)> == 2
ADAPTOR->createTypeTokenText(ADAPTOR, <token>->getType(<token>, TOKTEXT(<token>, <args;
separator=", ">)) /* JIMI */
#else
ADAPTOR->createTypeToken(ADAPTOR, <token>->getType(<token>, <token>, <args; separator=", ">)
#endif

<else>
stream_<token> == NULL ? NULL : stream_<token>->nextNode(stream_<token>)
<endif>
<endif>
>>

```

Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/C/AST.stg

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

/\*

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\*/

/\*

New style messages. 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.

\*/

group antlr;

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/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/templates/messages/formats/vs2005.stg

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Found in path(s):

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python/Dbg.stg

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/ActionScript/ASTParser.stg

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/Dbg.stg

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python3/AST.stg

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/serialize.g

\* /opt/cola/permits/1001035969\_1646171611.67/0/antlr-3-5-sources-

```
jar/org/antlr/codegen/templates/Java/ASTParser.stg
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python/AST.stg
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*/
```

```
/** Template overrides to add debugging to AST stuff. Dynamic inheritance
* hierarchy is set up as ASTDbg : AST : Dbg : Python by code generator.
*/
```

```
group ASTDbg;
```

```
astAccessor() ::= <<
def setTreeAdaptor(self, adaptor):
<if(grammar.grammarIsRoot)>
    self._adaptor = DebugTreeAdaptor(self.dbg, adaptor)
<else>
    self._adaptor = adaptor # delegator sends dbg adaptor
<endif>
    <grammar.directDelegates:{g|<g.delegateName()>.setTreeAdaptor(self._adaptor)}>
```

```
def getTreeAdaptor(self):
```

```

return self._adaptor

adaptor = property(getTreeAdaptor, setTreeAdaptor)<\n>
>>

createListenerAndHandshake() ::= <<
proxy = DebugEventSocketProxy(self,
adaptor=<if(TREE_PARSER)>self.input.getTreeAdaptor(<else>self._adaptor<endif>,
                debug=debug_socket, port=port)
self.setDebugListener(proxy)
self.adaptor.setDebugListener(proxy)
self.input.setDebugListener(proxy)
#self.set<inputStreamType>(Debug<inputStreamType>(self.input, proxy))
proxy.handshake()
>>

@rewriteElement.pregen() ::= "self._dbg.location(<e.line>, <e.pos>)"

```

Found in path(s):

```

* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-
jar/org/antlr/codegen/templates/Python3/ASTDbg.stg
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```

```

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```

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 \*/

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

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

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

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

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

```
epsilon-edge(src,target,label,arrowhead) ::= <<
<src> -> <target> [fontname="Times-Italic", label = "e"];
>>
```

```
state(name,useBox) ::= <<
node [fontsize=11, shape = <if(useBox)>box<else>circle, fixedsize=true, width=.4<endif>]; <name>
>>
```

```
stopstate(name,useBox) ::= <<
```

```
node [fontsize=11, shape = <if(useBox)>polygon,sides=4,peripheries=2<else>doublecircle, fixedsize=true,
width=.6<endif>]; <name>
>>
```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/tool/templates/dot/dot.stg
```

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```

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```
*/
```

```
/*
```

New style messages. 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.

```
*/
```

```
group antlr;
```

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

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

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

```
wantsSingleLineMessage() ::= "false"
```

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```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
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```
*/
```

```
/** Templates for building ASTs during tree parsing.
```

```
*
```

```
* Deal with many combinations. Dimensions are:
```

```
* Auto build or rewrite
```

```
* no label, label, list label (label/no-label handled together)
```

```
* child, root
```

```
* token, set, rule, wildcard
```

```
*
```

```
* Each combination has its own template except that label/no label
```

```
* is combined into tokenRef, ruleRef, ...
```

```
*/
```

```

/** Add a variable to track last element matched */
ruleDeclarations() ::= <<
<super.ruleDeclarations()>
<if(!ruleDescriptor.isSynPred)>
<ASTLabelType> _first_0 = null;
<ASTLabelType> _last = null;<\n>
<endif>
>>

/** What to emit when there is no rewrite rule. For auto build
 * mode, does nothing.
 */
noRewrite(rewriteBlockLevel=false, treeLevel=false) ::= <<
<if(!ruleDescriptor.isSynPred)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(rewriteMode)>
retval.tree = _first_0;
if ( adaptor.getParent(retval.tree)!=null && adaptor.isNil( adaptor.getParent(retval.tree) ) )
retval.tree = (<ASTLabelType>)adaptor.getParent(retval.tree);
<endif>
<if(backtracking)>}<endif>
<endif>
>>

/** match ^(root children) in tree parser; override here to
 * add tree construction actions.
 */
tree(root, actionsAfterRoot, children, nullableChildList,
enclosingTreeLevel, treeLevel) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
{
<ASTLabelType> _save_last_<treeLevel> = _last;
<ASTLabelType> _first_<treeLevel> = null;
<if(!rewriteMode)>
<ASTLabelType> root_<treeLevel> = (<ASTLabelType>)adaptor.nil();
<endif>
<root:element()>
<if(rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
<if(root.el.rule)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> =
(<ASTLabelType>)<root.el.label>.getTree();
<elseif(root.el.label)>
if ( _first_<enclosingTreeLevel>==null ) _first_<enclosingTreeLevel> = <root.el.label>;
<endif>
<endif>
<actionsAfterRoot:element()>

```

```

<if(nullableChildList)>
if ( input.LA(1)==Token.DOWN ) {
  match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
  <children:element()>
  match(input, Token.UP, null); <checkRuleBacktrackFailure()>
}
<else>
match(input, Token.DOWN, null); <checkRuleBacktrackFailure()>
<children:element()>
match(input, Token.UP, null); <checkRuleBacktrackFailure()>
<endif>
<if(!rewriteMode)>
adaptor.addChild(root_<enclosingTreeLevel>, root_<treeLevel>);
<endif>
_last = _save_last_<treeLevel>;
}<\n>
<else>
<super.tree(...)>
<endif>
>>

// TOKEN AST STUFF

/** ID! and output=AST (same as plain tokenRef) 'cept add
 * setting of _last
 */
tokenRefBang(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<else>
<super.tokenRefBang(...)>
<endif>
>>

/** ID auto construct */
tokenRef(token,label,elementIndex,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
adaptor.addChild(root_<treeLevel>, <label>_tree);

```

```

<if(backtracking)>><endif>
<else><! rewrite mode !>
<if(backtracking)>>if ( <actions.(actionScope).synpredgate> )<endif>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
<endif>
<else>
<super.tokenRef(...)>
<endif>
>>

/** label+=TOKEN auto construct */
tokenRefAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRef(...)>
<listLabel(elem=label,...)>
<else>
<super.tokenRefAndListLabel(...)>
<endif>
>>

/** ^(ID ...) auto construct */
tokenRefRuleRoot(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.tokenRef(...)>
<if(!rewriteMode)>
<if(backtracking)>>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>><endif>
<endif>
<else>
<super.tokenRefRuleRoot(...)>
<endif>
>>

/** Match ^(label+=TOKEN ...) auto construct */
tokenRefRuleRootAndListLabel(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
<tokenRefRuleRoot(...)>
<listLabel(elem=label,...)>
<else>
<super.tokenRefRuleRootAndListLabel(...)>
<endif>

```

>>

```
/** Match . wildcard and auto dup the node/subtree */
wildcard(token,label,elementIndex,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.wildcard(...)>
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <label>_tree = (<ASTLabelType>)adaptor.dupTree(<label>);
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}<endif>
  <else><! rewrite mode !>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> )<endif>
  if ( _first_<treeLevel>==null ) _first_<treeLevel> = <label>;
  <endif>
  <else>
  <super.wildcard(...)>
  <endif>
>>
```

// SET AST

```
matchSet(s,label,elementIndex,postmatchCode,terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
  _last = (<ASTLabelType>)input.LT(1);
  <super.matchSet(postmatchCode={
  <if(!rewriteMode)>
  <if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
  <if(terminalOptions.node)>
  <label>_tree = new <terminalOptions.node>(<label>);
  <else>
  <label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
  <endif><\n>
  adaptor.addChild(root_<treeLevel>, <label>_tree);
  <if(backtracking)>}\}<endif>
  <endif>
  }, ...
  )>
  <else>
  <super.matchSet(...)>
  <endif>
>>
```

```
matchRuleBlockSet(s,label,elementIndex,postmatchCode,treeLevel="0",terminalOptions={}) ::= <<
<if(!ruleDescriptor.isSynPred)>
  <matchSet(...)>
  <noRewrite(...)> <! set return tree !>
```

```

<else>
<super.matchRuleBlockSet(...)>
<endif>
>>

matchSetBang(s,label,elementIndex,postmatchCode,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.matchSet(...)>
<else>
<super.matchSetBang(...)>
<endif>
>>

matchSetRuleRoot(s,label,elementIndex,debug,terminalOptions={ }) ::= <<
<if(!ruleDescriptor.isSynPred)>
<super.matchSet(postmatchCode={
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<endif>
<if(terminalOptions.node)>
<label>_tree = new <terminalOptions.node>(<label>);
<else>
<label>_tree = (<ASTLabelType>)adaptor.dupNode(<label>);
<endif><\n>
root_<treeLevel> = (<ASTLabelType>)adaptor.becomeRoot(<label>_tree, root_<treeLevel>);
<if(backtracking)>\}<endif>
<endif>
}, ...
)>
<else>
<super.matchSetRuleRoot(...)>
<endif>
>>

// RULE REF AST

/** rule auto construct */
ruleRef(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>
<if(!rewriteMode)>
adaptor.addChild(root_<treeLevel>, <label>.getTree());
<else> <! rewrite mode !>
if ( _first_<treeLevel>==null ) _first_<treeLevel> = (<ASTLabelType>)<label>.getTree();
<endif>
<else>

```

```

<super.ruleRef(...)>
<endif>
>>

/** x+=rule auto construct */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRef(...)>
<listLabel(label, {<label>.getTree()})>
<else>
<super.ruleRefAndListLabel(...)>
<endif>
>>

/** ^(rule ...) auto construct */
ruleRefRuleRoot(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRef(...)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) <endif>root_<treeLevel> =
(<ASTLabelType>)adaptor.becomeRoot(<label>.getTree(), root_<treeLevel>);
<endif>
<else>
<super.ruleRefRuleRoot(...)>
<endif>
>>

/** ^(x+=rule ...) auto construct */
ruleRefRuleRootAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
<ruleRefRuleRoot(...)>
<listLabel(label, {<label>.getTree()})>
<else>
<super.ruleRefRuleRootAndListLabel(...)>
<endif>
>>

/** rule when output=AST and tracking for rewrite */
ruleRefTrack(rule,label,elementIndex,args,scope) ::= <<
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefTrack(...)>
>>

/** x+=rule when output=AST and tracking for rewrite */
ruleRefTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);

```

```

<super.ruleRefTrackAndListLabel(...)>
<else>
<super.ruleRefTrackAndListLabel(...)>
<endif>
>>

/** ^(rule ...) rewrite */
ruleRefRuleRootTrack(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRootTrack(...)>
<else>
<super.ruleRefRootTrack(...)>
<endif>
>>

/** ^(x+=rule ...) rewrite */
ruleRefRuleRootTrackAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<if(!ruleDescriptor.isSynPred)>
_last = (<ASTLabelType>)input.LT(1);
<super.ruleRefRuleRootTrackAndListLabel(...)>
<else>
<super.ruleRefRuleRootTrackAndListLabel(...)>
<endif>
>>

/** Streams for token refs are tree nodes now; override to
 * change nextToken to nextNode.
 */
createRewriteNodeFromElement(token,args,terminalOptions={ }) ::= <<
<if(terminalOptions.node)>
new <terminalOptions.node>(stream_<token>.nextNode())
<else>
stream_<token>.nextNode()
<endif>
>>

ruleCleanup() ::= <<
<super.ruleCleanup()>
<if(!ruleDescriptor.isSynPred)>
<if(!rewriteMode)>
<if(backtracking)>if ( <actions.(actionScope).synpredgate> ) {<\n><endif>
retval.tree = (<ASTLabelType>)adaptor.rulePostProcessing(root_0);
<if(backtracking)>}<endif>
<endif>
<endif>
>>

```

Found in path(s):

```
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-  
jar/org/antlr/codegen/templates/Java/ASTTreeParser.stg
```

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```

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```
*/
```

```
/** Template subgroup to add template rewrite output
```

```
* If debugging, then you'll also get STDbg.stg loaded.
```

```
*/
```

```
@outputFile.imports() ::= <<
```

```
<@super.imports(>
```

```
import stringtemplate3
```

```
>>
```

```
/** Add this to each rule's return value struct */
```

```
@returnScope.ruleReturnInit() ::= <<
```

```
self.st = None
```

```
>>
```

```
@returnScope.ruleReturnMembers() ::= <<
```

```
def getTemplate(self):
```

```

return self.st

def toString(self):
    if self.st is not None:
        return self.st.toString()
    return None
__str__ = toString

>>

@genericParser.init() ::= <<
<@super.init(>
self.templateLib = stringtemplate3.StringTemplateGroup(
    '<name>Templates', lexer='angle-bracket'
)

>>

@genericParser.members() ::= <<
<@super.members(>
def setTemplateLib(self, templateLib):
    self.templateLib = templateLib

def getTemplateLib(self):
    return self.templateLib

>>

/** x+=rule when output=template */
ruleRefAndListLabel(rule,label,elementIndex,args,scope) ::= <<
<ruleRef(...)>
<listLabel(label, {<label>.st})>
>>

rewriteTemplate(alts) ::= <<
# TEMPLATE REWRITE
<if(backtracking)>
if <actions.(actionScope).synpredgate>:
    <first(alts):rewriteTemplateAltFirst(>
    <rest(alts):{it | el<rewriteTemplateAlt(it)>}>
    <if(rewriteMode)><replaceTextInLine(><endif>

<else>
<first(alts):rewriteTemplateAltFirst(>
<rest(alts):{it | el<rewriteTemplateAlt(it)>}>
<if(rewriteMode)><replaceTextInLine(><endif>
<endif>
>>

```

```

replaceTextInLine() ::= <<
<if(TREE_PARSER)>
self.input.getTokenStream().replace(
    self.input.getTreeAdaptor().getTokenStartIndex(retval.start),
    self.input.getTreeAdaptor().getTokenStopIndex(retval.start),
    retval.st
)
<else>
self.input.replace(
    retval.start.getTokenIndex(),
    self.input.LT(-1).getTokenIndex(),
    retval.st
)
<endif>
>>

```

```

rewriteTemplateAltFirst(alt) ::= <<
<if(alt.pred)>
if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
<\n>
<else>
# <alt.description>
retval.st = <alt.alt>
<\n>
<endif>
>>

```

```

rewriteTemplateAlt(alt) ::= <<
<if(alt.pred)>if <alt.pred>:
    # <alt.description>
    retval.st = <alt.alt>
<\n>
<else>se:
    # <alt.description>
    retval.st = <alt.alt>
<\n>
<endif>
>>

```

```

rewriteEmptyTemplate(alts) ::= <<
None
>>

```

/\*\* Invoke a template with a set of attribute name/value pairs.

\* Set the value of the rule's template *\*after\** having set

```

* the attributes because the rule's template might be used as
* an attribute to build a bigger template; you get a self-embedded
* template.
*/
rewriteExternalTemplate(name,args) ::= <%
self.templateLib.getInstanceOf("<name>"<if(args)>, attributes={<args:{ a | "<a.name>": <a.value>}; separator=","
">"<endif>})
%>

/** expr is a string expression that says what template to load */
rewriteIndirectTemplate(expr,args) ::= <%
self.templateLib.getInstanceOf(<expr><if(args)>, attributes={<args:{ a | "<a.name>": <a.value>}; separator=","
">"<endif>})
%>

/** Invoke an inline template with a set of attribute name/value pairs */
rewriteInlineTemplate(args, template) ::= <%
stringtemplate3.StringTemplate("<template>", group=self.templateLib<if(args)>, attributes={<args:{ a |
"<a.name>": <a.value>}; separator="," ">"<endif>})
%>

/** plain -> {foo} action */
rewriteAction(action) ::= <<
<action>
>>

/** An action has %st.attrName=expr; or % {st}.attrName=expr; */
actionSetAttribute(st,attrName,expr) ::= <<
(<st>["<attrName>"] = <expr>
>>

/** Translate % {stringExpr} */
actionStringConstructor(stringExpr) ::= <<
stringtemplate3.StringTemplate(<stringExpr>, group=self.templateLib)
>>

Found in path(s):
* /opt/cola/permits/1001035969_1646171611.67/0/antlr-3-5-sources-jar/org/antlr/codegen/templates/Python/ST.stg

```

## 1.141 jersey-media-multipart 2.24.1

## 1.142 hibernate-entitymanager 3.6.7.Final

## 1.142.1 Available under license :

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- \* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/SyntaxError.java
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- \* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/Visitor.java
- \* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/util/proxy/ProxyObjectOutputStream.java
- \* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/CompileError.java
- \* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/stackmap/TypedBlock.java
- \* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/CtNewClass.java
- \* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/MethodInfo.java
- \* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/annotation/AnnotationsWriter.java

\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/util/proxy/ProxyFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/CodeAttribute.java

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\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/reflect/CannotReflectException.java

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\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/NotFoundException.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/Mnemonic.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/convert/TransformAfter.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/AccessFlag.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/reflect/Metalevel.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/reflect/Compiler.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/Stmnt.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/DoubleConst.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/CodeConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/stackmap/MapMaker.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/DuplicateMemberException.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/CodeGen.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/ParameterAnnotationsAttribute.java

\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/Declarator.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/ASTList.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/runtime/Inner.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/rmi/RemoteException.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/StackMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/CallExpr.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/util/proxy/RuntimeSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/analysis/MultiType.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/ClassFile.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/CtNewMethod.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/StringL.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/stackmap/BasicBlock.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/LongVector.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/TypeChecker.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/NewExpr.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/BadBytecode.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/util/proxy/MethodFilter.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/CtNewConstructor.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/rmi/ObjectImporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/AssignExpr.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/expr/ExprEditor.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/Translator.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/bytecode/ByteStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/expr/FieldAccess.java

\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/web/BadHttpRequest.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/scopedpool/ScopedClassPoolRepository.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/Variable.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/reflect/Loader.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/KeywordTable.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/tools/reflect/Sample.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/CtClassType.java  
\* /opt/ws\_local/PERMITS\_SQL/1019872344\_1591370595.25/0/javassist-3-20-0-ga-sources-jar/javassist/compiler/ast/Member.java

## 1.154 xmlschema 2.2.3

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# 1.155 jetty-client 9.4.17.v20190418

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Eclipse

The following artifacts are EPL.

\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javafx.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

-----

OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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## 1.160 poi-ooxml 3.13

## 1.161 abego-treelayout-core 1.0.1

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## 1.168 osgi-core 4.3.1.201210102023

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## 1.169 checker 1.9.13

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/Base64.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/AsyncTimeout.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/BufferedSink.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-  
jar/okio/BufferedSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/Timeout.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/InflaterSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/Segment.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/Okio.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-  
jar/okio/ForwardingSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1084394461\_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/SegmentPool.java

```
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-
jar/okio/RealBufferedSource.java
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/GzipSource.java
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-
jar/okio/RealBufferedSink.java
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/Sink.java
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/Source.java
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/Buffer.java
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-
jar/okio/ForwardingSink.java
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/DeflaterSink.java
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/GzipSink.java
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```
* /opt/ws_local/PERMITS_SQL/1084394461_1598481544.94/0/okio-1-12-0-sources-1-jar/okio/ByteString.java
```

## 1.176 kryo 2.16

## 1.177 spring-tx 4.3.19.RELEASE

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- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/DataRetrievalFailureException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/connection/NotSupportedRecordFactory.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/core/RecordExtractor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/OptimisticLockingFailureException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/UnexpectedRollbackException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/core/support/CciDaoSupport.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/context/BootstrapContextAwareProcessor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/DuplicateKeyException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/TransactionException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/UncategorizedDataAccessException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/EmptyResultDataAccessException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/work/DelegatingWork.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/CallbackPreferringPlatformTransactionManager.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/annotation/Isolation.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/config/TxNamespaceHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/object/SimpleRecordOperation.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/work/SimpleTaskWorkManager.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/context/BootstrapContextAware.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/connection/ConnectionFactoryUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/TransactionUsageException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/PlatformTransactionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceAdvisor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/TransactionTimedOutException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/object/MappingCommAreaOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/IllegalTransactionStateException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/IncorrectUpdateSemanticsDataAccessException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/RuleBasedTransactionAttribute.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/jta/TransactionFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/core/RecordCreator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/InvalidTimeoutException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/CannotCreateTransactionException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/PessimisticLockingFailureException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/CleanupFailureDataAccessException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/InvalidResultSetAccessException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/NonTransientDataAccessResourceException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/RecoverableDataAccessException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/DelegatingTransactionDefinition.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/InvalidDataAccessResourceUsageException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/MethodMapTransactionAttributeSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/jta/JtaAfterCompletionSynchronization.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/core/CciTemplate.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/ResourceHolderSynchronization.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/DataIntegrityViolationException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/connection/DelegatingConnectionFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/DataAccessResourceFailureException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/jta/SpringJtaSynchronizationAdapter.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/ConcurrencyFailureException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/support/PersistenceExceptionTranslator.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/InvalidDataAccessApiUsageException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/RecordTypeNotSupportedException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/PermissionDeniedDataAccessException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/CannotAcquireLockException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/InvalidIsolationLevelException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/connection/ConnectionHolder.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/NestedTransactionNotSupportedException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/support/ChainedPersistenceExceptionTranslator.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/support/SimpleBootstrapContext.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/NoRollbackRuleAttribute.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/TypeMismatchDataAccessException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/connection/TransactionAwareConnectionFactoryProxy.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/TransactionOperations.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/CciOperationNotSupportedException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/jta/SimpleTransactionFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/TransientDataAccessResourceException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/support/DaoSupport.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/NonTransientDataAccessException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/DataAccessException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/ResourceTransactionManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/connection/SingleConnectionFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/IncorrectResultSizeDataAccessException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/CannotCreateRecordException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/support/LocalConnectionFactoryBean.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/context/ResourceAdapterApplicationContext.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttribute.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/DeadlockLoserDataAccessException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/jta/ManagedTransactionAdapter.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeEditor.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/BeanFactoryTransactionAttributeSourceAdvisor.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/CompositeTransactionAttributeSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/CannotSerializeTransactionException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/object/MappingRecordOperation.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/CannotGetCciConnectionException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/DelegatingTransactionAttribute.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/TransactionSuspensionNotSupportedException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/NoTransactionException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationAdvisor.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/HeuristicCompletionException.java

\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionAttributeSourceEditor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/TransientDataAccessException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/TransactionSystemException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/QueryTimeoutException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/jta/UserTransactionAdapter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/connection/ConnectionSpecConnectionFactoryAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/TransactionDefinition.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/cci/connection/CciLocalTransactionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/TransactionSynchronizationManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/TransactionCallbackWithoutResult.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/support/ResourceAdapterFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/support/DataAccessUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/event/ApplicationListenerMethodTransactionalAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/jta/WebSphereUowTransactionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-

jar/org/springframework/transaction/interceptor/TransactionAttributeSourcePointcut.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/transaction/interceptor/TransactionAspectSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/transaction/annotation/EnableTransactionManagement.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/jca/cci/object/EisOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/transaction/event/TransactionalEventListener.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/jca/cci/core/support/CommAreaRecord.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/transaction/event/TransactionPhase.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
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jar/org/springframework/transaction/support/SimpleTransactionScope.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/jca/cci/core/ConnectionCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/transaction/support/TransactionCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/transaction/jta/JtaTransactionObject.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
jar/org/springframework/jca/work/WorkManagerTaskExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-  
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 * /opt/ws_local/PERMITS_SQL/1069088714_1594481187.0/0/spring-tx-4-3-19-release-sources-1-
jar/org/springframework/transaction/config/JtaTransactionManagerBeanDefinitionParser.java
 * /opt/ws_local/PERMITS_SQL/1069088714_1594481187.0/0/spring-tx-4-3-19-release-sources-1-
jar/org/springframework/transaction/interceptor/TransactionInterceptor.java
 * /opt/ws_local/PERMITS_SQL/1069088714_1594481187.0/0/spring-tx-4-3-19-release-sources-1-
jar/org/springframework/transaction/config/JtaTransactionManagerFactoryBean.java
 * /opt/ws_local/PERMITS_SQL/1069088714_1594481187.0/0/spring-tx-4-3-19-release-sources-1-
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\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/annotation/Transactional.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/TransactionTemplate.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/annotation/JtaTransactionAnnotationParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/annotation/SpringTransactionAnnotationParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/DefaultTransactionDefinition.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/DefaultTransactionStatus.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/annotation/AnnotationTransactionAttributeSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/jta/JtaTransactionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/AbstractTransactionStatus.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/SimpleTransactionStatus.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/annotation/Ejb3TransactionAnnotationParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/event/TransactionalEventListenerFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/AbstractPlatformTransactionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/endpoint/AbstractMessageEndpointFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/TransactionStatus.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/endpoint/GenericMessageEndpointFactory.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/AbstractFallbackTransactionAttributeSource.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/config/TransactionManagementConfigUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/annotation/ProxyTransactionManagementConfiguration.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/TransactionProxyFactoryBean.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/annotation/Propagation.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/dao/annotation/PersistenceExceptionTranslationPostProcessor.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/work/glassfish/GlassFishWorkManagerTaskExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/MatchAlwaysTransactionAttributeSource.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/work/jboss/JBossWorkManagerTaskExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/jta/WebLogicJtaTransactionManager.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/SmartTransactionObject.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/interceptor/NameMatchTransactionAttributeSource.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/work/jboss/JBossWorkManagerUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/jca/context/SpringContextResourceAdapter.java
- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/config/TxAdviceBeanDefinitionParser.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069088714\_1594481187.0/0/spring-tx-4-3-19-release-sources-1-jar/org/springframework/transaction/support/ResourceHolder.java

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# 1.180 owlapi-api 4.2.7

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\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/resource/FixedVersionStrategy.java

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*/
/**
* A contract for inspecting and potentially modifying request data values such
* as URL query parameters or form field values before they are rendered by a
* view or before a redirect.
*
* <p>Implementations may use this contract for example as part of a solution
* to provide data integrity, confidentiality, protection against cross-site
* request forgery (CSRF), and others or for other tasks such as automatically
* adding a hidden field to all forms and URLs.
*
* <p>View technologies that support this contract can obtain an instance to
* delegate to via { @link RequestContext#getRequestDataValueProcessor()}.
*
* @author Rossen Stoyanchev
* @since 3.1
*/

```

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* /opt/ws_local/PERMITS_SQL/1069091512_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-
jar/org/springframework/web/servlet/support/RequestDataValueProcessor.java

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jar/org/springframework/web/servlet/resource/ResourceUrlProvider.java  
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\* XSLT-driven View that allows for response context to be rendered as the

\* result of an XSLT transformation.

\*

\* <p>The XSLT Source object is supplied as a parameter in the model and then

\* { @link #locateSource detected } during response rendering. Users can either specify

\* a specific entry in the model via the { @link #setSourceKey sourceKey } property or  
\* have Spring locate the Source object. This class also provides basic conversion  
\* of objects into Source implementations. See { @link #getSourceTypes() here }  
\* for more details.  
\*  
\* <p>All model parameters are passed to the XSLT Transformer as parameters.  
\* In addition the user can configure { @link #setOutputProperties output properties }  
\* to be passed to the Transformer.  
\*  
\* @author Rob Harrop  
\* @author Juergen Hoeller  
\* @since 2.0  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069091512\_1594483346.99/0/spring-webmvc-4-3-19-release-sources-1-jar/org/springframework/web/servlet/view/xslt/XsltView.java

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jar/org/springframework/web/servlet/tags/NestedPathTag.java

# 1.183 spring-framework 4.3.19.RELEASE

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jar/org/springframework/core/env/CommandLinePropertySource.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-  
jar/org/springframework/util/InstanceFilter.java

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- \* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-

jar/org/springframework/asm/CurrentFrame.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-  
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\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-  
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jar/org/springframework/asm/Handle.java  
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\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/InfrastructureProxy.java  
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\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/util/comparator/NullSafeComparator.java  
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\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/style/StylerUtils.java  
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\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/serializer/Deserializer.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/util/comparator/BooleanComparator.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/util/MultiValueMap.java  
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\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/SpringVersion.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/ExceptionDepthComparator.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/style/DefaultValueStyler.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/util/PathMatcher.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/util/comparator/InvertibleComparator.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/task/TaskExecutor.java  
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\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/io/FileSystemResourceLoader.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/style/DefaultToStringStyler.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/util/xml/SimpleSaxErrorHandler.java  
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\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/io/ClassRelativeResourceLoader.java  
\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/convert/support/StringToPropertiesConverter.java  
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jar/org/springframework/lang/UsesSunHttpServer.java

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jar/org/springframework/asm/TypeReference.java

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\* /opt/cola/permits/1095923116\_1601528877.85/0/spring-core-4-3-19-release-sources-2-jar/org/springframework/core/convert/support/StringToUUIDConverter.java  
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# 1.184 object-cache-noop 0.8.3

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# 1.185 scala-reflect 2.10.0

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# 1.186 spring-web 4.3.19.RELEASE

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jar/org/springframework/web/context/support/XmlWebApplicationContext.java  
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* /opt/ws_local/PERMITS_SQL/1069083517_1594482173.79/0/spring-web-4-3-19-release-sources-1-
jar/org/springframework/web/client/AsyncRequestCallback.java
* /opt/ws_local/PERMITS_SQL/1069083517_1594482173.79/0/spring-web-4-3-19-release-sources-1-
jar/org/springframework/http/InvalidMediaTypeException.java
* /opt/ws_local/PERMITS_SQL/1069083517_1594482173.79/0/spring-web-4-3-19-release-sources-1-
```

jar/org/springframework/web/HttpMediaTypeException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083517\_1594482173.79/0/spring-web-4-3-19-release-sources-1-  
jar/org/springframework/http/server/ServerHttpResponse.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083517\_1594482173.79/0/spring-web-4-3-19-release-sources-1-  
jar/org/springframework/remoting/caucho/BurlapClientInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083517\_1594482173.79/0/spring-web-4-3-19-release-sources-1-  
jar/org/springframework/web/HttpMediaTypeNotSupportedException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083517\_1594482173.79/0/spring-web-4-3-19-release-sources-1-  
jar/org/springframework/remoting/jaxws/JaxWsPortClientInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083517\_1594482173.79/0/spring-web-4-3-19-release-sources-1-  
jar/org/springframework/http/converter/xml/XmlAwareFormHttpMessageConverter.java

## 1.187 antlr-runtime 4.5.1

## 1.188 profiler 1.0.2

## 1.189 error\_prone\_annotations 2.1.2

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## 1.190 mvel2 2.2.8.Final

## 1.191 commons-logging 1.2

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\* /opt/cola/permits/1098211000\_1602271079.6/0/commons-logging-1-1-sources-1-

jar/org/apache/commons/logging/impl/AvalonLogger.java  
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jar/org/apache/commons/logging/LogFactory.java
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```
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/SimpleLog.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/LogKitLogger.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/Jdk13LumberjackLogger.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
```

```
jar/org/apache/commons/logging/impl/NoOpLog.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/Log4JLogger.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/Jdk14Logger.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/LogConfigurationException.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/LogFactoryImpl.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/Log.java
* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
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* /opt/cola/permits/1098211000_1602271079.6/0/commons-logging-1-1-sources-1-
jar/org/apache/commons/logging/impl/ServletContextCleaner.java
```

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## 1.194 hibernatejpa2.0api 1.0.1.Final

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## 1.195 jsonld-java 0.5.0

## 1.196 javax-xml-soap-api 1.4.0

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* /opt/ws_local/PERMITS_SQL/1001157792_1600475344.17/0/spring-osgi-core-1-2-1-sources-
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\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/util/internal/BundleUtils.java  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/context/DelegatedExecutionOsgiBundleApplicationContext.java

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\* Created on 23-Jan-2006 by Adrian Colyer

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/context/support/BundleContextAwareProcessor.java

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- \* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/config/OsgiNamespaceHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/util/OsgiPlatformDetector.java
- \* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/config/BundleBeanDefinitionParser.java
- \* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/service/importer/support/LocalBundleContextAdvice.java
- \* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/config/internal/util/ParserUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/service/importer/support/LocalBundleContext.java
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- \* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/util/BundleDelegatingClassLoader.java

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- \* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/service/exporter/support/internal/controller/ExporterControllerUtils.java
- \* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-jar/org/springframework/osgi/config/internal/util/PropertyRefAttributeCallback.java
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jar/org/springframework/osgi/OsgiException.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/collection/OsgiServiceSortedSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/context/support/DefaultContextClassLoaderProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/context/OsgiBundleApplicationContextExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/util/internal/PrivilegedUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/context/support/TrackingUtil.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/controller/ImporterControllerUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/collection/DynamicSortedList.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/context/support/ContextClassLoaderProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-

jar/org/springframework/osgi/config/AbstractReferenceDefinitionParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/event/OsgiServiceDependencyEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/context/event/ApplicationListenerAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/context/internal/classloader/BundleClassLoaderFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/ServiceUnavailableException.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/support/ServiceWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/util/OsgiStringUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/context/event/OsgiBundleApplicationContextEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/compendium/internal/cm/BeanManagedUpdate.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/config/CollectionBeanDefinitionParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/config/internal/adaptor/OsgiServiceRegistrationListenerAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/exporter/support/internal/support/ServiceRegistrationDecorator.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/StaticServiceProxyCreator.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/AbstractServiceImporterProxyFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/aop/ServiceProviderTCCLInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/util/SimpleLogger.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/config/internal/util/MethodUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/context/support/OsgiPropertyEditorRegistrar.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/compendium/internal/cm/ManagedServiceBeanManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/exporter/support/internal/controller/ExporterInternalActions.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/config/internal/util/ServiceAttributeCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/support/RetryTemplate.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/compendium/config/ManagedServiceFactoryDefinitionParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/compendium/internal/cm/ManagedServiceInstanceTrackerPostProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-

jar/org/springframework/osgi/service/importer/event/OsgiServiceDependencyWaitStartingEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/aop/ServiceInvoker.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/aop/ServiceStaticInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/controller/ImporterController.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/compendium/config/UpdateStrategyAttributeCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/config/internal/adaptor/CustomListenerAdapterUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/util/DebugUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/dependency/internal/DefaultMandatoryDependencyManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/aop/ServiceProxyCreator.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/DefaultOsgiServiceDependency.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/compendium/config/ManagedPropertiesDefinitionParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/config/internal/util/StandardAttributeCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/ServiceException.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/context/event/OsgiBundleApplicationContextEventMulticaster.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/dependency/internal/MandatoryDependencyBeanPostProcessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/config/OsgiDefaultsDefinition.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/ServiceProxyDestroyedException.java  
\* /opt/ws\_local/PERMITS\_SQL/1001157792\_1600475344.17/0/spring-osgi-core-1-2-1-sources-  
jar/org/springframework/osgi/service/importer/support/internal/controller/ImporterInternalActions.java

## 1.202 commons-collections 4.4

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## 1.203 jeromq 0.3.2

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\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/authentication/WebAuthenticationDetails.java

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\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/servletapi/HttpServletRequest3RequestFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/util/RegexRequestMatcher.java

\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/servletapi/HttpServletRequest25RequestFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/context/SaveContextOnUpdateOrErrorResponseWrapper.java

\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/util/AntPathRequestMatcher.java

\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/context/request/async/SecurityContextCallableProcessingInterceptor.java

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\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/util/matcher/ELRequestMatcherContext.java

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\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/util/matcher/NegatedRequestMatcher.java

\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/util/matcher/AndRequestMatcher.java

\* /opt/ws\_local/PERMITS\_SQL/1069085001\_1595277826.38/0/spring-security-web-3-2-4-release-sources-2-jar/org/springframework/security/web/util/matcher/OrRequestMatcher.java

## 1.205 sesame-rio-datatypes 2.7.16

## 1.206 owlapi-parsers 4.2.7

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# 1.208 icu4j 56.1

## 1.208.1 Available under license :

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"http://www.w3.org/TR/html4/loose.dtd">
```

```
<html>
```

```
<head>
```

```
<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">
```

```
<title>ICU License - ICU 1.8.1 and later</title>
```

```
</head>
```

```
<body BGCOLOR="#ffffff">
```

```
<h2>ICU License - ICU 1.8.1 and later</h2>
```

```
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```

```
<p>
```

```
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</p>
```

```
<p>
```

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```
</p>
```

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<p>
```

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```

```
</p>
```

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<p>
```

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#

#

# The word list in cjdict.txt are generated by combining three word lists listed

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```

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```
<pre>
```

```
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```

```
#
```

```
# Project: http://code.google.com/p/lao-dictionary/
```

```
# Dictionary: http://lao-dictionary.googlecode.com/git/Lao-Dictionary.txt
```

```
# License: http://lao-dictionary.googlecode.com/git/Lao-Dictionary-LICENSE.txt
```

```
# (copied below)
```

```
#
```

```
# This file is derived from the above dictionary, with slight modifications.
```

```
# -----
```

```
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```

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```

```
#
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```

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```
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#
# This list is part of a project hosted at:
# github.com/kanyawtech/myanmar-karen-word-lists
#
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# -----
</pre>
```

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```
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Time Zone Database</a> for its time zone support. The ownership of the TZ database is explained
```

in <http://tools.ietf.org/html/rfc6557>>BCP 175: Procedure for Maintaining the Time Zone Database</a> section 7.<p>

<pre>

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</body>

</html>

## 1.209 reflectasm 1.06

## 1.210 jaxen 1.1.6

### 1.210.1 Available under license :

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```
/*
 * $Header$
 * $Revision: 1321 $
 * $Date: 2008-04-26 17:30:06 -0700 (Sat, 26 Apr 2008) $
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*
* $Id: BaseXPath.java 1321 2008-04-27 00:30:06Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/BaseXPath.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header$
* $Revision: 1366 $
* $Date: 2012-05-05 12:17:35 -0400 (Sat, 05 May 2012) $
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* $Id: DefaultFunctionCallExpr.java 1366 2012-05-05 16:17:35Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultFunctionCallExpr.java

```

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/*

```

```

* $Header$

```

```

* $Revision: 1128 $

```

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\* \$Id: DefaultXPathHandler.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/helpers/DefaultXPathHandler.java

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 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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 *
 * $Id: SingleObjectIterator.java 1255 2006-11-09 18:20:12Z elharo $
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/SingleObjectIterator.java

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\* \$Id: DefaultMultiplicativeExpr.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultMultiplicativeExpr.java

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\* \$Id: SimpleFunctionContext.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/SimpleFunctionContext.java

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\* \$Id: DefaultLessThanEqualExpr.java 1396 2013-01-13 12:22:49Z elharo \$

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\* \$Id: DescendantOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$

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\* \$Id: DescendantAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$  
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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/DescendantAxisIterator.java

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\* \$Id: DefaultUnionExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
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jar/org/jaxen/expr/DefaultUnionExpr.java

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\* \$Id: Token.java 1128 2006-02-05 21:49:04Z elharo \$  
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jar/org/jaxen/saxpath/base/Token.java  
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*
* $Id: StackedIterator.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/StackedIterator.java

```

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```

/*
* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
*
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```

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* $Id: DefaultExpr.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

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```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultExpr.java

```

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```

/*

```

```

* $Header$

```

```

* $Revision: 1128 $

```

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* $Id: ContainsFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/ContainsFunction.java
```

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```
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 * $Header$
 * $Revision: 1241 $
 * $Date: 2006-11-08 10:07:25 -0800 (Wed, 08 Nov 2006) $
 *
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 *
 * $Id: Predicated.java 1241 2006-11-08 18:07:25Z elharo $
 */
```

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Predicated.java

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\* \$Revision: 1235 \$

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\* \$Id: LocationPath.java 1235 2006-11-08 17:02:21Z elharo \$  
\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LocationPath.java

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\*  
\* \$Id: NamespaceContext.java 1168 2006-07-03 11:58:31Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/NamespaceContext.java

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\* \$Id: LangFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/LangFunction.java

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\* \$Id: ProcessingInstructionNodeStep.java 1226 2006-11-08 15:44:33Z elharo \$

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\* \$Id: LinkedIterator.java 1255 2006-11-09 18:20:12Z elharo \$

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/LinkedIterator.java

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\* \$Id: SimpleVariableContext.java 1159 2006-06-03 20:25:34Z elharo \$  
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 \* \$Id: UpperFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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\$Id: Context.java 1219 2006-10-15 21:08:16Z elharo \$

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\$Id: DefaultNameStep.java 1290 2007-04-17 01:26:35Z bewins \$

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\*

\* \$Id: DocumentFunction.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/xslt/DocumentFunction.java

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\* \$Header\$

\* \$Revision: 1133 \$

\* \$Date: 2006-03-30 05:56:36 -0800 (Thu, 30 Mar 2006) \$

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\* \$Id: Axis.java 1133 2006-03-30 13:56:36Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/saxpath/Axis.java

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\* \$Header\$

\* \$Revision: 1302 \$

\* \$Date: 2007-05-02 07:33:29 -0700 (Wed, 02 May 2007) \$

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\* \$Id: SelfAxisIterator.java 1302 2007-05-02 14:33:29Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/SelfAxisIterator.java

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\* \$Header\$

\* \$Revision: 1258 \$

\* \$Date: 2006-11-13 14:38:17 -0800 (Mon, 13 Nov 2006) \$

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* $Id: PredicateSet.java 1258 2006-11-13 22:38:17Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/PredicateSet.java

```

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* $Header$
* $Revision: 1396 $
* $Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) $
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 \*  
 \* \$Id: DefaultGreaterThanExpr.java 1396 2013-01-13 12:22:49Z elharo \$  
 \*/

Found in path(s):  
 \* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
 jar/org/jaxen/expr/DefaultGreaterThanExpr.java  
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 \* \$Header\$  
 \* \$Revision: 1128 \$  
 \* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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* $Id: LocalNameFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/LocalNameFunction.java

```

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/*
* $Header$
* $Revision: 1345 $
* $Date: 2009-10-22 07:25:23 -0400 (Thu, 22 Oct 2009) $
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* $Id: DefaultLocationPath.java 1345 2009-10-22 11:25:23Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultLocationPath.java

```

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/*

```

```

$Id: XPath.java 1304 2007-05-02 15:00:13Z elharo $

```

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\* \$Id: TrueFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/TrueFunction.java

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\* \$Revision: 1128 \$  
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* $Id: RoundFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

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```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/RoundFunction.java

```

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* $Header$
* $Revision: 1159 $
* $Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) $
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* $Id: UnresolvableException.java 1159 2006-06-03 20:25:34Z elharo $
*/
```

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```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/UnresolvableException.java
```

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\* \$Revision: 1161 \$  
\* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$  
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\* \$Id: JavaBeanXPath.java 1161 2006-06-03 20:36:00Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-

jar/org/jaxen/javabean/JavaBeanXPath.java

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 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 * $Id: FunctionContext.java 1128 2006-02-05 21:49:04Z elharo $
```

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\* \$Revision: 1157 \$

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\*  
\* \$Id: Navigator.java 1157 2006-06-03 20:07:37Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/Navigator.java  
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\* \$Header\$

\* \$Revision: 1237 \$

\* \$Date: 2006-11-08 09:17:32 -0800 (Wed, 08 Nov 2006) \$

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*
* $Id: NumberExpr.java 1237 2006-11-08 17:17:32Z elharo $
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/NumberExpr.java
```

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```
/*
* $Header$
* $Revision: 1335 $
* $Date: 2008-11-30 06:20:38 -0800 (Sun, 30 Nov 2008) $
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\* \$Id: DefaultTruthExpr.java 1335 2008-11-30 14:20:38Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultTruthExpr.java

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\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\* \$Id: SAXPathEventSource.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/SAXPathEventSource.java

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\* \$Header\$

\* \$Revision: 1245 \$

\* \$Date: 2006-11-08 10:52:02 -0800 (Wed, 08 Nov 2006) \$

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\* \$Id: TextNodeStep.java 1245 2006-11-08 18:52:02Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/TextNodeStep.java

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\* \$Header\$  
\* \$Revision: 1364 \$  
\* \$Date: 2011-07-30 05:46:45 -0400 (Sat, 30 Jul 2011) \$

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 \*  
 \* \$Id: DocumentNavigator.java 1364 2011-07-30 09:46:45Z elharo \$  
 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
 jar/org/jaxen/dom/DocumentNavigator.java

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 \* \$Header\$  
 \* \$Revision: 1179 \$  
 \* \$Date: 2006-07-16 04:07:25 -0700 (Sun, 16 Jul 2006) \$  
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* $Id: FunctionCallException.java 1179 2006-07-16 11:07:25Z elharo $
*/

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Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/FunctionCallException.java

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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 \* \$Id: LocaleFunctionSupport.java 1128 2006-02-05 21:49:04Z elharo \$  
 \*/

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 jar/org/jaxen/function/ext/LocaleFunctionSupport.java

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\$Id: DocumentNavigator.java 1161 2006-06-03 20:36:00Z elharo \$

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 \* \$Id: NamespaceUriFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
 \*/

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 jar/org/jaxen/function/NamespaceUriFunction.java

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 \* \$Header\$  
 \* \$Revision: 1261 \$  
 \* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$  
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* $Id: DefaultPathExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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/*
* $Header$
* $Revision: 1225 $
* $Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) $
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* $Id: AllNodeStep.java 1225 2006-11-08 15:42:39Z elharo $
*/

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\*  
\* \$Id: PositionFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/PositionFunction.java

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

```
/*
 * $Header$
 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
 *
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 *
 * $Id: EndsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/EndsWithFunction.java

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\* \$Header\$

\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\*  
\* \$Id: TranslateFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/TranslateFunction.java

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*
* $Id: $
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/JaxenRuntimeException.java
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/JaxenConstants.java
```

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```
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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\*

\* \$Id: NodeTest.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/NodeTest.java

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\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\*

\* \$Id: DefaultArithExpr.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultArithExpr.java

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\* \$Header\$

\* \$Revision: 1261 \$

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\* \$Id: DefaultCommentNodeStep.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultCommentNodeStep.java  
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/\*  
\* \$Header\$  
\* \$Revision: 1132 \$  
\* \$Date: 2006-03-30 05:53:11 -0800 (Thu, 30 Mar 2006) \$  
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 \*  
 \* \$Id: JaxenHandler.java 1132 2006-03-30 13:53:11Z elharo \$  
 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/JaxenHandler.java  
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/\*  
 \* \$Header\$  
 \* \$Revision: 1334 \$  
 \* \$Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) \$  
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\* \$Id: TokenType.java 1334 2008-11-29 17:58:48Z elharo \$  
\*/

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/base/TokenType.java  
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\* \$Header\$  
\* \$Revision: 1255 \$  
\* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$  
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* $Id: FollowingSiblingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/util/FollowingSiblingAxisIterator.java

```

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```

/*
* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
*
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*

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* $Id: IterableSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableSelfAxis.java

```

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```

/*

```

```

* $Header$

```

```

* $Revision: 1128 $

```

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* $Id: AnyChildNodeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/AnyChildNodeTest.java
```

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 * $Header$
 * $Revision: 1134 $
 * $Date: 2006-04-07 10:11:52 -0700 (Fri, 07 Apr 2006) $
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 * $Id: Pattern.java 1134 2006-04-07 17:11:52Z elharo $
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/pattern/Pattern.java

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/\*

\$Id: IterableChildAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableChildAxis.java

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\* \$Revision: 1156 \$

\* \$Date: 2006-06-03 13:04:05 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: DocumentNavigator.java 1156 2006-06-03 20:04:05Z elharo \$

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/xom/DocumentNavigator.java

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```
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 * $Header$
 * $Revision: 1252 $
 * $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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 *
 * $Id: EqualityExpr.java 1252 2006-11-09 16:21:05Z elharo $
 */
```

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/EqualityExpr.java

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\*  
\* \$Id: AdditiveExpr.java 1252 2006-11-09 16:21:05Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/AdditiveExpr.java

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\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* $Id: SubstringAfterFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

Found in path(s):

```
*/opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/SubstringAfterFunction.java
```

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```
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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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\* \$Id: DefaultXPathExpr.java 1162 2006-06-03 20:52:26Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultXPathExpr.java

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\* \$Id: DefaultAdditiveExpr.java 1128 2006-02-05 21:49:04Z elharo \$

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultAdditiveExpr.java

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\* \$Revision: 1334 \$

\* \$Date: 2008-11-29 09:58:48 -0800 (Sat, 29 Nov 2008) \$

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\* \$Id: XPathLexer.java 1334 2008-11-29 17:58:48Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/base/XPathLexer.java

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\* \$Header\$  
\* \$Revision: 1261 \$  
\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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\* \$Id: DefaultDivExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
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\* \$Header\$  
\* \$Revision: 1161 \$  
\* \$Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) \$  
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 \* \$Id: JDOMXPath.java 1161 2006-06-03 20:36:00Z elharo \$  
 \*/

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 \* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
 jar/org/jaxen/jdom/JDOMXPath.java  
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/\*  
 \* \$Header\$  
 \* \$Revision: 1128 \$  
 \* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/SubstringFunction.java

```

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```

/*
* $Header$
* $Revision: 1247 $
* $Date: 2006-11-08 11:06:30 -0800 (Wed, 08 Nov 2006) $
*
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* $Id: UnaryExpr.java 1247 2006-11-08 19:06:30Z elharo $
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```

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```

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```

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* $Header$
```

```
* $Revision: 1261 $
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\*

\* \$Id: DefaultOrExpr.java 1261 2006-11-30 18:49:27Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultOrExpr.java

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```
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 * $Header$
 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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 *
 * $Id: FollowingAxisIterator.java 1255 2006-11-09 18:20:12Z elharo $
```

\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/FollowingAxisIterator.java

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\* \$Header\$

\* \$Revision: 1277 \$

\* \$Date: 2007-01-05 10:25:43 -0800 (Fri, 05 Jan 2007) \$

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\* \$Id: DefaultBinaryExpr.java 1277 2007-01-05 18:25:43Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultBinaryExpr.java  
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\$Id: IterableAxis.java 1128 2006-02-05 21:49:04Z elharo \$

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterableAxis.java

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\$Id: NamedAccessNavigator.java 1128 2006-02-05 21:49:04Z elharo \$

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\* \$Revision: 1251 \$

\* \$Date: 2006-11-09 08:11:38 -0800 (Thu, 09 Nov 2006) \$

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* $Id: DefaultXPathFactory.java 1251 2006-11-09 16:11:38Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultXPathFactory.java

```

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```

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* $Header$

```

```

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* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultAbsolutePath.java 1261 2006-11-30 18:49:27Z elharo $
*/

```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
```

jar/org/jaxen/expr/DefaultAbsolutePath.java

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```
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 * $Header$
 * $Revision: 1162 $
 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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 * $Id: IterableFollowingAxis.java 1162 2006-06-03 20:52:26Z elharo $
```

\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableFollowingAxis.java

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\* \$Id: Step.java 1268 2006-12-10 15:32:14Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Step.java  
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\* \$Id: JaxenException.java 1161 2006-06-03 20:36:00Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/JaxenException.java

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\* \$Id: Dom4jXPath.java 1162 2006-06-03 20:52:26Z elharo \$

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
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\* \$Revision: 1257 \$

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\* \$Id: PrecedingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo \$  
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\* \$Id: DefaultProcessingInstructionNodeStep.java 1279 2007-01-06 12:21:12Z elharo \$

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\*  
\* \$Id: DefaultGreaterThanEqualExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultGreaterThanEqualExpr.java  
No license file was found, but licenses were detected in source scan.

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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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* $Id: SubstringBeforeFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/SubstringBeforeFunction.java

```

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* $Revision: 1236 $
* $Date: 2006-11-08 09:10:02 -0800 (Wed, 08 Nov 2006) $
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\*  
\* \$Id: NameStep.java 1236 2006-11-08 17:10:02Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/NameStep.java

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\* \$Header\$  
\* \$Revision: 1162 \$  
\* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: IterablePrecedingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
\*/

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterablePrecedingSiblingAxis.java  
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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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* $Id: NameTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/NameTest.java

```

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```

/*

```

```
* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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* $Id: DefaultUnaryExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
```

jar/org/jaxen/expr/DefaultUnaryExpr.java

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```
/*
 * $Header$
 * $Revision: 1255 $
 * $Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) $
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```

\* \$Id: AncestorOrSelfAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/AncestorOrSelfAxisIterator.java

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\* \$Header\$

\* \$Revision: 1232 \$

\* \$Date: 2006-11-08 08:37:59 -0800 (Wed, 08 Nov 2006) \$

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\* \$Id: FunctionCallExpr.java 1232 2006-11-08 16:37:59Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/FunctionCallExpr.java

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* $Id: NotFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

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```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/NotFunction.java
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\* \$Id: NoNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/pattern/NoNodeTest.java

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\* \$Revision: 1396 \$

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\* \$Id: DefaultEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo \$  
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jar/org/jaxen/expr/DefaultEqualsExpr.java

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\* \$Id: LocationPathPattern.java 1128 2006-02-05 21:49:04Z elharo \$  
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jar/org/jaxen/pattern/LocationPathPattern.java

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*
* $Id: FalseFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/FalseFunction.java

```

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```

/*
* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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\*  
\* \$Id: XOMXPath.java 1161 2006-06-03 20:36:00Z elharo \$  
\*/

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/xom/XOMXPath.java  
No license file was found, but licenses were detected in source scan.

/\*  
\* \$Header\$  
\* \$Revision: 1386 \$  
\* \$Date: 2012-07-29 09:29:13 -0400 (Sun, 29 Jul 2012) \$  
\*  
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*
* $Id: NumberFunction.java 1386 2012-07-29 13:29:13Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/NumberFunction.java

```

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* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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*
* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/XPathSyntaxException.java

```

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```

/*
* $Header$
* $Revision: 1128 $

```

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\* \$Id: Operator.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/Operator.java

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```
/*
 * $Header$
 * $Revision: 1234 $
 * $Date: 2006-11-08 08:47:30 -0800 (Wed, 08 Nov 2006) $
 *
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 * $Id: LiteralExpr.java 1234 2006-11-08 16:47:30Z elharo $
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LiteralExpr.java

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\* \$Header\$

\* \$Revision: 1168 \$

\* \$Date: 2006-07-03 04:58:31 -0700 (Mon, 03 Jul 2006) \$

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\* \$Id: VariableContext.java 1168 2006-07-03 11:58:31Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/VariableContext.java

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```
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 * $Header$
 * $Revision: 1252 $
 * $Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) $
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 * $Id: RelationalExpr.java 1252 2006-11-09 16:21:05Z elharo $
 */
```

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/RelationalExpr.java

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\* \$Revision: 1261 \$

\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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\* \$Id: DefaultPredicate.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

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\*/opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/DefaultPredicate.java

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/NodeComparator.java

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 * $Revision: 1324 $
 * $Date: 2008-04-26 18:48:59 -0700 (Sat, 26 Apr 2008) $
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\* \$Id: StringLengthFunction.java 1324 2008-04-27 01:48:59Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/StringLengthFunction.java

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\* \$Revision: 1396 \$

\* \$Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) \$

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\* \$Id: DefaultLessThanExpr.java 1396 2013-01-13 12:22:49Z elharo \$

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\*

\* \$Id: ConcatFunction.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/ConcatFunction.java

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\* \$Revision: 1261 \$

\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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\*  
\* \$Id: DefaultMultiplyExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultMultiplyExpr.java

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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$  
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* $Id: StartsWithFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/StartsWithFunction.java

```

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* $Header$
* $Revision: 1326 $
* $Date: 2008-04-26 18:56:10 -0700 (Sat, 26 Apr 2008) $
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\*  
\* \$Id: FilterExpr.java 1326 2008-04-27 01:56:10Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/FilterExpr.java

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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* $Id: IdFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

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Found in path(s):
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/IdFunction.java
No license file was found, but licenses were detected in source scan.

```

```

/*
* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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```

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* $Id: IterableDescendantAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterableDescendantAxis.java

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* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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* $Id: IterableAncestorOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

```

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```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
```

jar/org/jaxen/expr/iter/IterableAncestorOrSelfAxis.java

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 * $Revision: 1128 $
 * $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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 *
 * $Id: LowerFunction.java 1128 2006-02-05 21:49:04Z elharo $
```

\*/

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\*/opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/ext/LowerFunction.java

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\* \$Id: CeilingFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
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jar/org/jaxen/function/CeilingFunction.java

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* $Id: DefaultLogicalExpr.java 1128 2006-02-05 21:49:04Z elharo $
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```

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```
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jar/org/jaxen/expr/DefaultLogicalExpr.java
```

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* $Header$
* $Revision: 1273 $
* $Date: 2007-01-03 12:47:42 -0800 (Wed, 03 Jan 2007) $
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\* \$Id: DefaultLiteralExpr.java 1273 2007-01-03 20:47:42Z elharo \$  
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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
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\* \$Id: DefaultModExpr.java 1261 2006-11-30 18:49:27Z elharo \$

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jar/org/jaxen/expr/DefaultModExpr.java

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\* \$Id: XPathReader.java 1334 2008-11-29 17:58:48Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/base/XPathReader.java

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\* \$Header\$  
\* \$Revision: 1128 \$  
\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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* $Id: FloorFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/FloorFunction.java

```

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* $Header$
* $Revision: 1162 $
* $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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\*  
\* \$Id: IterableNamespaceAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
\*/

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterableNamespaceAxis.java  
No license file was found, but licenses were detected in source scan.

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\* \$Header\$  
\* \$Revision: 1228 \$  
\* \$Date: 2006-11-08 08:00:22 -0800 (Wed, 08 Nov 2006) \$  
\*  
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* $Id: UnionExpr.java 1228 2006-11-08 16:00:22Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/UnionExpr.java

```

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* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: XPathReader.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/saxpath/XPathReader.java

```

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/*
* $Header$

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```

* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: XPathSyntaxException.java 1161 2006-06-03 20:36:00Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/XPathSyntaxException.java

```

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 * $Revision: 1162 $
 * $Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) $
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 * $Id: IterableDescendantOrSelfAxis.java 1162 2006-06-03 20:52:26Z elharo $
 */
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableDescendantOrSelfAxis.java

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\* \$Revision: 1261 \$

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\* \$Id: DefaultNumberExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultNumberExpr.java

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* $Id: XPathNamespace.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

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```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/jdom/XPathNamespace.java
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* $Revision: 1171 $
* $Date: 2006-07-03 06:17:30 -0700 (Mon, 03 Jul 2006) $
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\* \$Id: DocumentNavigator.java 1171 2006-07-03 13:17:30Z elharo \$

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jar/org/jaxen/dom4j/DocumentNavigator.java

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\* \$Revision: 1300 \$

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\* \$Id: PathExpr.java 1300 2007-05-02 14:27:46Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/PathExpr.java

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\* \$Revision: 1162 \$

\* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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\*  
\* \$Id: IterableParentAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterableParentAxis.java

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\$Id: ContextSupport.java 1157 2006-06-03 20:07:37Z elharo \$

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/ContextSupport.java

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\* \$Header\$

\* \$Revision: 1162 \$

\* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: DOMXPath.java 1162 2006-06-03 20:52:26Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/dom/DOMXPath.java

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\* \$Header\$

\* \$Revision: 1261 \$

\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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\* \$Id: DefaultTextNodeStep.java 1261 2006-11-30 18:49:27Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultTextNodeStep.java

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\* \$Header\$

\* \$Revision: 1160 \$

\* \$Date: 2006-06-03 13:26:02 -0700 (Sat, 03 Jun 2006) \$

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\* \$Id: UnsupportedAxisException.java 1160 2006-06-03 20:26:02Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/UnsupportedAxisException.java

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\* \$Header\$  
\* \$Revision: 1193 \$  
\* \$Date: 2006-09-15 13:41:38 -0700 (Fri, 15 Sep 2006) \$  
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\* \$Id: XPathReaderFactory.java 1193 2006-09-15 20:41:38Z elharo \$  
\*/

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/helpers/XPathReaderFactory.java  
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\* \$Header\$  
\* \$Revision: 1198 \$  
\* \$Date: 2006-09-21 04:48:05 -0700 (Thu, 21 Sep 2006) \$  
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* $Id: DocumentNavigator.java 1198 2006-09-21 11:48:05Z elharo $
*/

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Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/jdom/DocumentNavigator.java

```

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/*
* $Header$
* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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* $Id: LastFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/function/LastFunction.java

```

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/*--
*
* $Id$

```

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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```

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```

/*
* $Header$
* $Revision: 1300 $

```

\* \$Date: 2007-05-02 07:27:46 -0700 (Wed, 02 May 2007) \$

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\* \$Id: Predicate.java 1300 2007-05-02 14:27:46Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/Predicate.java

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```
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 * $Header$
 * $Revision: 1306 $
 * $Date: 2007-05-02 08:04:46 -0700 (Wed, 02 May 2007) $
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 * $Id: XPathExpr.java 1306 2007-05-02 15:04:46Z elharo $
 */
```

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\* \$Id: LogicalExpr.java 1252 2006-11-09 16:21:05Z elharo \$  
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\*/opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/LogicalExpr.java

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\* \$Revision: 1253 \$

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\* \$Id: SingletonList.java 1253 2006-11-09 16:39:19Z elharo \$  
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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/SingletonList.java

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\* \$Id: DefaultFilterExpr.java 1261 2006-11-30 18:49:27Z elharo \$

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\$Id: IterableAttributeAxis.java 1162 2006-06-03 20:52:26Z elharo \$

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Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableAttributeAxis.java

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\* \$Header\$

\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\*  
\* \$Id: TextNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/pattern/TextNodeTest.java

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\* \$Header\$

\* \$Revision: 1255 \$

\* \$Date: 2006-11-09 10:20:12 -0800 (Thu, 09 Nov 2006) \$

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\* \$Id: AncestorAxisIterator.java 1255 2006-11-09 18:20:12Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/util/AncestorAxisIterator.java

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\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\* \$Id: NameFunction.java 1128 2006-02-05 21:49:04Z elharo \$

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/function/NameFunction.java

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\* \$Revision: 1159 \$

\* \$Date: 2006-06-03 13:25:34 -0700 (Sat, 03 Jun 2006) \$

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\*

\* \$Id: SimpleNamespaceContext.java 1159 2006-06-03 20:25:34Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/SimpleNamespaceContext.java

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\* \$Header\$

\* \$Revision: 1225 \$

\* \$Date: 2006-11-08 07:42:39 -0800 (Wed, 08 Nov 2006) \$

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\* \$Id: CommentNodeStep.java 1225 2006-11-08 15:42:39Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/CommentNodeStep.java

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\* \$Revision: 1261 \$  
\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$

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* $Id: DefaultPlusExpr.java 1261 2006-11-30 18:49:27Z elharo $
*/

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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\* \$Id: MultiplicativeExpr.java 1325 2008-04-27 01:55:05Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/MultiplicativeExpr.java  
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* $Id: NormalizeSpaceFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Id: DefaultNavigator.java 1128 2006-02-05 21:49:04Z elharo $
*/

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Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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* $Header$

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* $Revision: 1128 $

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* $Id: PatternHandler.java 1128 2006-02-05 21:49:04Z elharo $
*/
```

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```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
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 * $Revision: 1261 $
 * $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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 * $Id: DefaultAllNodeStep.java 1261 2006-11-30 18:49:27Z elharo $
 */
```

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\*  
\* \$Id: IterableAncestorAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/iter/IterableAncestorAxis.java

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\* \$Header\$

\* \$Revision: 1370 \$

\* \$Date: 2012-05-06 19:52:12 -0400 (Sun, 06 May 2012) \$

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\*  
\* \$Id: NamespaceNode.java 1370 2012-05-06 23:52:12Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/dom/NamespaceNode.java

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\* \$Header\$

\* \$Revision: 1252 \$

\* \$Date: 2006-11-09 08:21:05 -0800 (Thu, 09 Nov 2006) \$

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\* \$Id: BinaryExpr.java 1252 2006-11-09 16:21:05Z elharo \$

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/BinaryExpr.java

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\* \$Header\$

\* \$Revision: 1337 \$

\* \$Date: 2008-12-02 17:58:10 -0800 (Tue, 02 Dec 2008) \$

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\* \$Id: XPathFactory.java 1337 2008-12-03 01:58:10Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/XPathFactory.java

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\* \$Header\$

\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\* \$Id: UnionPattern.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/pattern/UnionPattern.java

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\* \$Revision: 1367 \$

\* \$Date: 2012-05-05 12:31:33 -0400 (Sat, 05 May 2012) \$

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*
* $Id: PatternParser.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/PatternParser.java

```

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* $Header$
* $Revision: 1261 $
* $Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) $
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\*  
\* \$Id: DefaultRelativeLocationPath.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultRelativeLocationPath.java

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\* \$Header\$  
\* \$Revision: 1248 \$  
\* \$Date: 2006-11-08 11:20:29 -0800 (Wed, 08 Nov 2006) \$

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\* \$Id: VariableReferenceExpr.java 1248 2006-11-08 19:20:29Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/VariableReferenceExpr.java

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\* \$Header\$

\* \$Revision: 1396 \$

\* \$Date: 2013-01-13 07:22:49 -0500 (Sun, 13 Jan 2013) \$

\*

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* $Id: DefaultNotEqualsExpr.java 1396 2013-01-13 12:22:49Z elharo $
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultNotEqualsExpr.java
```

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```
/*
```

```

* $Header$
* $Revision: 1161 $
* $Date: 2006-06-03 13:36:00 -0700 (Sat, 03 Jun 2006) $
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* $Id: SAXPathException.java 1161 2006-06-03 20:36:00Z elharo $
*/

```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/SAXPathException.java

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\* \$Revision: 1257 \$

\* \$Date: 2006-11-13 14:10:09 -0800 (Mon, 13 Nov 2006) \$

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\* \$Id: PrecedingSiblingAxisIterator.java 1257 2006-11-13 22:10:09Z elharo \$

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/util/PrecedingSiblingAxisIterator.java

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\* \$Id: IterableFollowingSiblingAxis.java 1162 2006-06-03 20:52:26Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/iter/IterableFollowingSiblingAxis.java

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\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\* \$Id: NamespaceTest.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/pattern/NamespaceTest.java  
No license file was found, but licenses were detected in source scan.

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\* \$Header\$  
\* \$Revision: 1261 \$  
\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$  
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\* \$Id: Expr.java 1261 2006-11-30 18:49:27Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/expr/Expr.java

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\* \$Id: DefaultMinusExpr.java 1261 2006-11-30 18:49:27Z elharo \$

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultMinusExpr.java

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\* \$Header\$

\* \$Revision: 1128 \$

\* \$Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) \$

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\*  
\* \$Id: BooleanFunction.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/function/BooleanFunction.java  
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\* \$Revision: 1128 \$  
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* $Id: DefaultStep.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/DefaultStep.java

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* $Header$
* $Revision: 1222 $
* $Date: 2006-11-08 05:59:38 -0800 (Wed, 08 Nov 2006) $
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\* \$Id: XPathFunctionContext.java 1222 2006-11-08 13:59:38Z elharo \$  
\*/

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\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/XPathFunctionContext.java  
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* $Id: NodeTypeTest.java 1128 2006-02-05 21:49:04Z elharo $
*/

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Found in path(s):

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* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/pattern/NodeTypeTest.java

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* $Id: EvaluateFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

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* $Id: StringFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/

```

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 * $Id: CountFunction.java 1128 2006-02-05 21:49:04Z elharo $
 */

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\* \$Id: DefaultEqualityExpr.java 1332 2008-10-18 13:29:28Z elharo \$

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\* \$Id: DefaultRelationalExpr.java 1128 2006-02-05 21:49:04Z elharo \$  
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* $Id: SumFunction.java 1128 2006-02-05 21:49:04Z elharo $
*/
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* $Revision: 1128 $
* $Date: 2006-02-05 13:49:04 -0800 (Sun, 05 Feb 2006) $
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\* \$Id: AnyNodeTest.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/pattern/AnyNodeTest.java

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\* \$Id: Function.java 1128 2006-02-05 21:49:04Z elharo \$

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-jar/org/jaxen/Function.java

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\*  
\* \$Id: XPathHandler.java 1128 2006-02-05 21:49:04Z elharo \$  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/saxpath/XPathHandler.java

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\* \$Header\$  
\* \$Revision: 1154 \$  
\* \$Date: 2006-06-01 06:19:30 -0700 (Thu, 01 Jun 2006) \$

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\*  
\* \$Id: QualifiedName.java 1154 2006-06-01 13:19:30Z elharo \$  
\*/

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/QualifiedName.java  
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\* \$Header\$  
\* \$Revision: 1261 \$  
\* \$Date: 2006-11-30 10:49:27 -0800 (Thu, 30 Nov 2006) \$  
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\*  
\* \$Id: DefaultAndExpr.java 1261 2006-11-30 18:49:27Z elharo \$  
\*/

Found in path(s):  
\* /opt/ws\_local/PERMITS\_SQL/1018361820\_1591370763.9/0/jaxen-1-1-6-sources-  
jar/org/jaxen/expr/DefaultAndExpr.java  
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\* \$Header\$  
\* \$Revision: 1162 \$  
\* \$Date: 2006-06-03 13:52:26 -0700 (Sat, 03 Jun 2006) \$  
\*  
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*
* $Id: IterablePrecedingAxis.java 1162 2006-06-03 20:52:26Z elharo $
*/

```

Found in path(s):

```

* /opt/ws_local/PERMITS_SQL/1018361820_1591370763.9/0/jaxen-1-1-6-sources-
jar/org/jaxen/expr/iter/IterablePrecedingAxis.java

```

## 1.211 jetty-security 9.4.17.v20190418

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Eclipse

The following artifacts are EPL.

- \* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.

- \* org.eclipse.jetty.orbit:javafx.security.auth.message

The following artifacts are EPL and CDDL 1.0.

- \* org.eclipse.jetty.orbit:javafx.mail.glassfish

-----

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

- \* javax.servlet:javax.servlet-api
- \* javax.annotation:javax.annotation-api
- \* javax.transaction:javax.transaction-api
- \* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

- \* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

- org.ow2.asm:asm-commons
- org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from following Apache Tomcat jars, all ASL2 licensed.

org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

-----

Mortbay

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org.eclipse.jetty.toolchain:jetty-schemas

-----

Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville. Permission to use, copy, modify and distribute UnixCrypt for non-commercial or commercial purposes and without fee is granted provided that the copyright notice appears in all copies.

# 1.212 okhttp 3.9.0

## 1.212.1 Available under license :

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\* /opt/cola/permits/194345792\_1646171445.2/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Huffman.java

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\* /opt/cola/permits/194345792\_1646171445.2/okhttp-3-9-0-sources-jar/okhttp3/Request.java

\* /opt/cola/permits/194345792\_1646171445.2/okhttp-3-9-0-sources-jar/okhttp3/Dispatcher.java

\* /opt/cola/permits/194345792\_1646171445.2/okhttp-3-9-0-sources-jar/okhttp3/MediaType.java

\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/connection/RouteDatabase.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Handshake.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/ErrorCode.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Hpack.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/cache/CacheStrategy.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/NamedRunnable.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/cache/InternalCache.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/RequestLine.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Route.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/StatusLine.java  
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\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/publicsuffix/PublicSuffixDatabase.java

\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/EventListener.java

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- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/OkHttpClient.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Ping.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Dns.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/connection/RouteSelector.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Settings.java

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- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/RealResponseBody.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/ws/WebSocketWriter.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/Internal.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Protocol.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/CertificatePinner.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/ws/WebSocketReader.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/ConnectionSpec.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/HttpMethod.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Header.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/CipherSuite.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/RealCall.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/Version.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/MultipartBody.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/FormBody.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Callback.java

\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/PushObserver.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/RequestBody.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Call.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Credentials.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Challenge.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/ws/WebSocketProtocol.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Interceptor.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/cache/CacheRequest.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/ResponseBody.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/TlsVersion.java  
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\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/RetryAndFollowUpInterceptor.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/ConnectionShutdownException.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/ws/RealWebSocket.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/platform/Jdk9Platform.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/CallServerInterceptor.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/RealInterceptorChain.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/WebSocket.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/cache2/FileOperator.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/platform/JdkWithJettyBootPlatform.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/platform/AndroidPlatform.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-

jar/okhttp3/internal/tls/BasicCertificateChainCleaner.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/cache2/Relay.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/BasicTrustRootIndex.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/UnrepeatableRequestBody.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/WebSocketListener.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/StreamResetException.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/TrustRootIndex.java  
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\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/cache/DiskLruCache.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/HttpDate.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Connection.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Reader.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Stream.java  
\* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Writer.java  
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- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/OkHostnameVerifier.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/cache/CacheInterceptor.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/platform/OptionalMethod.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/connection/RealConnection.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/BridgeInterceptor.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/DistinguishedNameParser.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Connection.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Headers.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/tls/CertificateChainCleaner.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/connection/ConnectInterceptor.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/ConnectionPool.java

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* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Authenticator.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-
jar/okhttp3/internal/connection/StreamAllocation.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/io/FileSystem.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-
jar/okhttp3/internal/connection/ConnectionSpecSelector.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Cookie.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-
jar/okhttp3/internal/cache/FaultHidingSink.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/HttpUrl.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/CookieJar.java
* /opt/cola/permits/194345792_1646171445.2/0/okhttp-3-9-0-sources-
jar/okhttp3/internal/connection/RouteException.java
```

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\*/

Found in path(s):

- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/Address.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/HttpHeaders.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http1/Http1Codec.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/Util.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http2/Http2Codec.java
- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/http/HttpCodec.java

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Found in path(s):

- \* /opt/cola/permits/194345792\_1646171445.2/0/okhttp-3-9-0-sources-jar/okhttp3/internal/platform/Platform.java

## 1.213 javax-annotation-api 1.2

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## 1.215 bcel 2.7.2

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## 1.216 sesame-rio-nquads 2.7.16

## 1.217 spring-security 3.2.4.RELEASE

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\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java

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/\*\*

\* Determines if the { @link #getAuthentication() } has permission to access the target given the permission  
\* @param target the target domain object to check permission on  
\* @param permission the permission to check on the domain object (i.e. "read", "write", etc).  
\* @return true if permission is granted to the { @link #getAuthentication() }, else false  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/expression/SecurityExpressionOperations.java

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*/opt/ws_local/PERMITS_SQL/1069090566_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/context/DelegatingApplicationListener.java  
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*/
```

```
/**  
* Reviews the Object returned from a secure object invocation,  
* being able to modify the Object or throw an { @link  
* AccessDeniedException}.  
*  
* <p>  
* Typically used to ensure the principal is permitted to access the domain  
* object instance returned by a service layer bean. Can also be used to  
* mutate the domain object instance so the principal is only able to access  
* authorised bean properties or <code>Collection</code> elements.  
*  
* <p>  
* Special consideration should be given to using an
```

\* `AfterInvocationManager` on bean methods that modify a database.  
\* Typically an `AfterInvocationManager` is used with read-only  
\* methods, such as `public DomainObject getById(id)`. If used with  
\* methods that modify a database, a transaction manager should be used to  
\* ensure any `AccessDeniedException` will cause a rollback of the  
\* changes made by the transaction.  
\* `</p>`  
\*  
\* @author Ben Alex  
\* /

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/intercept/AfterInvocationManager.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/intercept/MethodInvocationPrivilegeEvaluator.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManager.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureBadCredentialsEvent.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/vote/AbstractAclVoter.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/event/AuthenticationFailureExpiredEvent.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/ProviderNotFoundException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/core/GrantedAuthority.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/vote/AffirmativeBased.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/vote/AbstractAccessDecisionManager.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/core/context/GlobalSecurityContextHolderStrategy.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/annotation/Secured.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/intercept/RunAsUserToken.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/core/session/SessionInformation.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/CredentialsExpiredException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java
- \* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java
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jar/org/springframework/security/authentication/encoding/LdapShaPasswordEncoder.java  
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jar/org/springframework/security/core/context/SecurityContextImpl.java  
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jar/org/springframework/security/authentication/jaas/JaasPasswordCallbackHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources  
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\* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).

\* See <http://iharder.net/base64> for more information.

\* <p>

\* For internal use only.

\*

\* @author Luke Taylor

\* @since 3.0

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\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/util/EncodingUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java

\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/password/Digester.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/keygen/KeyGenerators.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/encrypt/CipherUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/encrypt/TextEncryptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/expression/method/MethodSecurityExpressionOperations.java

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\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/method/P.java

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\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/jaas/AbstractJaasAuthenticationProvider.java

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/\*\*

\*

\* @param authentication represents the user in question. Should not be null.  
\* @param targetDomainObject the domain object for which permissions should be checked. May be null  
\* in which case implementations should return false, as the null condition can be checked explicitly  
\* in the expression.  
\* @param permission a representation of the permission object as supplied by the expression system. Not null.  
\* @return true if the permission is granted, false otherwise  
\*/

Found in path(s):

\*/opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/access/PermissionEvaluator.java

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/\*\*

\* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest Algorithm.

\*

\* @author Alan Stewart

\*/

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\*/opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-jar/org/springframework/security/authentication/encoding/Md4.java

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jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/scheduling/DelegatingSecurityContextSchedulingTaskExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/task/DelegatingSecurityContextAsyncTaskExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/authentication/InternalAuthenticationServiceException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutorService.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/task/DelegatingSecurityContextTaskExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/concurrent/AbstractDelegatingSecurityContextSupport.java

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/\*\*

\* A token issued by { @link TokenService }.

\*

\* <p>

\* It is important that the keys assigned to tokens are sufficiently randomised and secured that  
\* they can serve as identifying a unique user session. Implementations of { @link TokenService }  
\* are free to use encryption or encoding strategies of their choice. It is strongly recommended that  
\* keys are of sufficient length to balance safety against persistence cost. In relation to persistence  
\* cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.

\* </p>

\*

\* @author Ben Alex

\* @since 2.0.1

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069090566\_1598520967.9/0/spring-security-core-3-2-9-release-sources-  
jar/org/springframework/security/core/token/Token.java

# 1.218 jackson-module-jsonschema 2.1.0

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## 1.220 jersey-guava 2.24.1

## 1.221 commons-http-client 3.0.1

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```

```
package org.apache.commons.httpclient;
```

```
import java.io.FilterInputStream;
import java.io.IOException;
import java.io.InputStream;
```

```
/**
 * Closes an underlying stream as soon as the end of the stream is reached, and
 * notifies a client when it has done so.
 *
 * @author Ortwin Glueck
 * @author Eric Johnson
 * @author <a href="mailto:mbowler@GargoyleSoftware.com">Mike Bowler</a>
 *
 * @since 2.0
 */

```

```
class AutoCloseInputStream extends FilterInputStream {
```

```
    /**
     * True if this stream is open. Assume that the underlying stream
     * is open until we get an EOF indication.
     */

```

```
    private boolean streamOpen = true;
```

```
    /** True if the stream closed itself. */
```

```
    private boolean selfClosed = false;
```

```
    /**
```

```

* The watcher is notified when the contents of the stream have
* been exhausted
*/
private ResponseConsumedWatcher watcher = null;

/**
* Create a new auto closing stream for the provided connection
*
* @param in the input stream to read from
* @param watcher To be notified when the contents of the stream have been
* consumed.
*/
public AutoCloseInputStream(
    final InputStream in, final ResponseConsumedWatcher watcher) {
    super(in);
    this.watcher = watcher;
}

/**
* Reads the next byte of data from the input stream.
*
* @throws IOException when there is an error reading
* @return the character read, or -1 for EOF
*/
public int read() throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        // underlying stream not closed, go ahead and read.
        l = super.read();
        checkClose(l);
    }

    return l;
}

/**
* Reads up to <code>len</code> bytes of data from the stream.
*
* @param b a <code>byte</code> array to read data into
* @param off an offset within the array to store data
* @param len the maximum number of bytes to read
* @return the number of bytes read or -1 for EOF
* @throws IOException if there are errors reading
*/
public int read(byte[] b, int off, int len) throws IOException {
    int l = -1;

```

```

    if (isReadAllowed()) {
        l = super.read(b, off, len);
        checkClose(l);
    }

    return l;
}

/**
 * Reads some number of bytes from the input stream and stores them into the
 * buffer array b.
 *
 * @param b a <code>byte</code> array to read data into
 * @return the number of bytes read or -1 for EOF
 * @throws IOException if there are errors reading
 */
public int read(byte[] b) throws IOException {
    int l = -1;

    if (isReadAllowed()) {
        l = super.read(b);
        checkClose(l);
    }
    return l;
}

/**
 * Close the stream, and also close the underlying stream if it is not
 * already closed.
 * @throws IOException If an IO problem occurs.
 */
public void close() throws IOException {
    if (!selfClosed) {
        selfClosed = true;
        notifyWatcher();
    }
}

/**
 * Close the underlying stream should the end of the stream arrive.
 *
 * @param readResult The result of the read operation to check.
 * @throws IOException If an IO problem occurs.
 */
private void checkClose(int readResult) throws IOException {
    if (readResult == -1) {
        notifyWatcher();
    }
}

```

```

}

/**
 * See whether a read of the underlying stream should be allowed, and if
 * not, check to see whether our stream has already been closed!
 *
 * @return <code>true</code> if it is still OK to read from the stream.
 * @throws IOException If an IO problem occurs.
 */
private boolean isReadAllowed() throws IOException {
    if (!streamOpen && selfClosed) {
        throw new IOException("Attempted read on closed stream.");
    }
    return streamOpen;
}

/**
 * Notify the watcher that the contents have been consumed.
 * @throws IOException If an IO problem occurs.
 */
private void notifyWatcher() throws IOException {
    if (streamOpen) {
        super.close();
        streamOpen = false;

        if (watcher != null) {
            watcher.responseConsumed();
        }
    }
}
}
}

```

## 1.222 axis 1.4\_2

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## 1.223 opentracing-spring-web-autoconfigure

### 0.3.2

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# 1.226 xmltooling 1.4.4

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jar/org/opensaml/xml/util/ClassIndexedSet.java  
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/signature/SignatureTrustEngine.java  
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/encryption/validator/ReferenceListSchemaValidator.java  
* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-
```

jar/org/opensaml/xml/encryption/impl/CipherReferenceUnmarshaller.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/encryption/impl/ReferenceListUnmarshaller.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/signature/impl/NamedCurveUnmarshaller.java  
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jar/org/opensaml/xml/signature/impl/ECKeyValueBuilder.java  
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jar/org/opensaml/xml/encryption/impl/AgreementMethodMarshaller.java  
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jar/org/opensaml/xml/encryption/impl/CipherDataUnmarshaller.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/signature/PGPKeyPacket.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/encryption/ReferenceType.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/schema/impl/XSAnyBuilder.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/signature/impl/Impl.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/encryption/ChainingEncryptedKeyResolver.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/signature/impl/DEREncodedKeyValueUnmarshaller.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/security/trust/ExplicitKeyTrustEvaluator.java  
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jar/org/opensaml/xml/signature/impl/X509DigestMarshaller.java  
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jar/org/opensaml/xml/signature/impl/X509SKIImpl.java  
\* /opt/cola/permits/1000345062\_1646171458.27/0/xmltooling-1-4-4-sources-  
jar/org/opensaml/xml/encryption/impl/EncryptedKeyMarshaller.java  
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#### Schema for XML Signatures

<http://www.w3.org/2000/09/xmldsig#>  
\$Revision: 1.2 \$ on \$Date: 2005/06/03 03:09:54 \$ by \$Author: cantor \$

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\*/

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\* Encodes and decodes to and from Base64 notation.

\*

\* <p>

\* Change Log:

\* </p>

```

* <ul>
* <li>v2.1 - Cleaned up javadoc comments and unused variables and methods. Added some convenience methods
for reading
* and writing to and from files.</li>
* <li>v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems with other encodings (like
* EBCDIC).</li>
* <li>v2.0.1 - Fixed an error when decoding a single byte, that is, when the encoded data was a single byte.</li>
* <li>v2.0 - I got rid of methods that used booleans to set options. Now everything is more consolidated and cleaner.
* The code now detects when data that's being decoded is gzip-compressed and will decompress it automatically.
* Generally things are cleaner. You'll probably have to change some method calls that you were making to support
the
* new options format (<tt>int</tt>s that you "OR" together).</li>
* <li>v1.5.1 - Fixed bug when decompressing and decoding to a byte[] using
* <tt>decode( String s, boolean gzipCompressed )</tt>. Added the ability to "suspend" encoding in the Output
Stream
* so you can turn on and off the encoding if you need to embed base64 data in an otherwise "normal" stream (like an
XML
* file).</li>
* <li>v1.5 - Output stream pases on flush() command but doesn't do anything itself. This helps when using GZIP
* streams. Added the ability to GZip-compress objects before encoding them.</li>
* <li>v1.4 - Added helper methods to read/write files.</li>
* <li>v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.</li>
* <li>v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream where last buffer being read, if
* not completely full, was not returned.</li>
* <li>v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.</li>
* <li>v1.3.3 - Fixed I/O streams which were totally messed up.</li>
* </ul>
*
* <p>
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* warranties but with plenty of well-wishing instead! Please visit <a
* href="http://iharder.net/base64">http://iharder.net/base64</a> periodically to check for updates or to contribute
* improvements.
* </p>
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.1
*/

```

Found in path(s):

```

* /opt/cola/permits/1000345062_1646171458.27/0/xmltooling-1-4-4-sources-jar/org/opensaml/xml/util/Base64.java

```

## 1.227 opencensus-contrib-grpc-metrics 0.10.0

# 1.228 commons-codec 1.9

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## 1.230 security-provider 1.64

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\* /opt/ws\_local/PERMITS\_SQL/1069091491\_1594482714.54/0/jaeger-thrift-0-27-0-rc1-sources-jar/io/jaegertracing/thrift/senders/ThriftSenderBase.java

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## 1.232 jcip-annotation 1.0 1

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\* /opt/ws\_local/PERMITS\_SQL/1013822089\_1591370825.53/0/jcip-annotations-1-0-1-sources-

jar/net/jcip/annotations/NotThreadSafe.java  
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jar/net/jcip/annotations/ThreadSafe.java  
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jar/net/jcip/annotations/GuardedBy.java  
\* /opt/ws\_local/PERMITS\_SQL/1013822089\_1591370825.53/0/jcip-annotations-1-0-1-sources-  
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# 1.235 guice 4.0

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Sun/Final/Full

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# 1.236 javax-activation 1.2.0

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```

```
package javax.activation;
```

```
import java.util.Map;
import java.util.WeakHashMap;
```

```
/**
 * The CommandMap class provides an interface to a registry of
 * command objects available in the system.
 * Developers are expected to either use the CommandMap
 * implementation included with this package (MailcapCommandMap) or
 * develop their own. Note that some of the methods in this class are
 * abstract.
 */

```

```
public abstract class CommandMap {
    private static CommandMap defaultCommandMap = null;
    private static Map<ClassLoader,CommandMap> map =
        new WeakHashMap<ClassLoader,CommandMap>();

```

```
/**
 * Get the default CommandMap.
 *
 * <ul>

```

```

* <li> In cases where a CommandMap instance has been previously set
*   to some value (via <i>setDefaultCommandMap</i>)
* return the CommandMap.
* </li>
* In cases where no CommandMap has been set, the CommandMap
*   creates an instance of <code>MailcapCommandMap</code> and
*   set that to the default, returning its value.
*
* </ul>
*
* @return the CommandMap
*/
public static synchronized CommandMap getDefaultCommandMap() {
if (defaultCommandMap != null)
    return defaultCommandMap;

// fetch per-thread-context-class-loader default
ClassLoader tccl = SecuritySupport.getContextClassLoader();
CommandMap def = map.get(tccl);
if (def == null) {
    def = new MailcapCommandMap();
    map.put(tccl, def);
}
return def;
}

/**
* Set the default CommandMap. Reset the CommandMap to the default by
* calling this method with <code>null</code>.
*
* @param commandMap The new default CommandMap.
* @exception SecurityException if the caller doesn't have permission
*   to change the default
*/
public static synchronized void setDefaultCommandMap(CommandMap commandMap) {
SecurityManager security = System.getSecurityManager();
if (security != null) {
    try {
// if it's ok with the SecurityManager, it's ok with me...
security.checkSetFactory();
    } catch (SecurityException ex) {
// otherwise, we also allow it if this code and the
// factory come from the same (non-system) class loader (e.g.,
// the JAF classes were loaded with the applet classes).
ClassLoader cl = CommandMap.class.getClassLoader();
if (cl == null || cl.getParent() == null ||
    cl != commandMap.getClass().getClassLoader()) {
        throw ex;
    }
}
}
}

```

```

    }
    }
}
// remove any per-thread-context-class-loader CommandMap
map.remove(SecuritySupport.getContextClassLoader());
defaultCommandMap = commandMap;
}

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo classes that represent the command Beans.
 */
abstract public CommandInfo[] getPreferredCommands(String mimeType);

/**
 * Get the preferred command list from a MIME Type. The actual semantics
 * are determined by the implementation of the CommandMap. <p>
 *
 * The <code>DataSource</code> provides extra information, such as
 * the file name, that a CommandMap implementation may use to further
 * refine the list of commands that are returned. The implementation
 * in this class simply calls the <code>getPreferredCommands</code>
 * method that ignores this argument.
 *
 * @param mimeType the MIME type
 * @param ds a DataSource for the data
 * @return the CommandInfo classes that represent the command Beans.
 * @since JAF 1.1
 */
public CommandInfo[] getPreferredCommands(String mimeType, DataSource ds) {
return getPreferredCommands(mimeType);
}

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type.
 *
 * @param mimeType the MIME type
 * @return the CommandInfo objects representing all the commands.
 */
abstract public CommandInfo[] getAllCommands(String mimeType);

/**
 * Get all the available commands for this type. This method
 * should return all the possible commands for this MIME type. <p>

```

```

*
* The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the list of commands that are returned. The implementation
* in this class simply calls the <code>getAllCommands</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param ds a DataSource for the data
* @return the CommandInfo objects representing all the commands.
* @since JAF 1.1
*/
public CommandInfo[] getAllCommands(String mimeType, DataSource ds) {
return getAllCommands(mimeType);
}

/**
* Get the default command corresponding to the MIME type.
*
* @param mimeType the MIME type
* @param cmdName the command name
* @return the CommandInfo corresponding to the command.
*/
abstract public CommandInfo getCommand(String mimeType, String cmdName);

/**
* Get the default command corresponding to the MIME type. <p>
*
* The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the command that is chosen. The implementation
* in this class simply calls the <code>getCommand</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param cmdName the command name
* @param ds a DataSource for the data
* @return the CommandInfo corresponding to the command.
* @since JAF 1.1
*/
public CommandInfo getCommand(String mimeType, String cmdName,
DataSource ds) {
return getCommand(mimeType, cmdName);
}

/**
* Locate a DataContentHandler that corresponds to the MIME type.
* The mechanism and semantics for determining this are determined

```

```

* by the implementation of the particular CommandMap.
*
* @param mimeType the MIME type
* @return the DataContentHandler for the MIME type
*/
abstract public DataContentHandler createDataContentHandler(String
    mimeType);

/**
* Locate a DataContentHandler that corresponds to the MIME type.
* The mechanism and semantics for determining this are determined
* by the implementation of the particular CommandMap. <p>
*
* The <code>DataSource</code> provides extra information, such as
* the file name, that a CommandMap implementation may use to further
* refine the choice of DataContentHandler. The implementation
* in this class simply calls the <code>createDataContentHandler</code>
* method that ignores this argument.
*
* @param mimeType the MIME type
* @param ds a DataSource for the data
* @return the DataContentHandler for the MIME type
* @since JAF 1.1
*/
public DataContentHandler createDataContentHandler(String mimeType,
    DataSource ds) {
return createDataContentHandler(mimeType);
}

/**
* Get all the MIME types known to this command map.
* If the command map doesn't support this operation,
* null is returned.
*
* @return array of MIME types as strings, or null if not supported
* @since JAF 1.1
*/
public String[] getMimeTypes() {
return null;
}
}

```

## 1.237 owlapi-impl 4.2.7

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## 1.239 javax-el 2.2.4

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\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

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\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

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\* java.sun.security.ssl

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<http://openjdk.java.net/legal/gplv2+ce.html>

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org.ow2.asm:asm-commons

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org.apache.taglibs:taglibs-standard-spec

org.apache.taglibs:taglibs-standard-impl

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org.mortbay.jasper:apache-jsp

org.apache.tomcat:tomcat-jasper

org.apache.tomcat:tomcat-juli

org.apache.tomcat:tomcat-jsp-api

org.apache.tomcat:tomcat-el-api

org.apache.tomcat:tomcat-jasper-el

org.apache.tomcat:tomcat-api

org.apache.tomcat:tomcat-util-scan

org.apache.tomcat:tomcat-util

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

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Assorted

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# 1.254 javax-inject 1

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## 1.255 websocket-servlet 9.3.27.v20190418

## 1.256 jep 2.4.2

## 1.257 semargl-rdfa 0.6.1

## 1.258 jsr305 3.0.0

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## 1.259 hibernate-validator 5.1.3.Final

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# 1.260 spring-boot-autoconfigure

## 1.5.12.RELEASE

### 1.261 cas-client-core 3.2.1

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## 1.266 activation 1.2.1

## 1.267 jersey-spring 2.24.1

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## 1.268 proto-google-common-protos 1.0.0

## 1.269 spring-security-web 3.2.4.RELEASE

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\* /opt/ws\_local/PERMITS\_SQL/1069088266\_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-jar/org/springframework/security/web/savedrequest/FastDateFormat.java  
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jar/org/springframework/security/web/access/intercept/DefaultFilterInvocationSecurityMetadataSource.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069088266\_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-jar/org/springframework/security/web/FilterInvocation.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069088266\_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-jar/org/springframework/security/web/authentication/rememberme/JdbcTokenRepositoryImpl.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069088266\_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-jar/org/springframework/security/web/header/writers/HstsHeaderWriter.java
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\* /opt/ws\_local/PERMITS\_SQL/1069088266\_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-  
jar/org/springframework/security/web/util/matcher/MediaTypeRequestMatcher.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088266\_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-  
jar/org/springframework/security/web/csrf/HttpSessionCsrfTokenRepository.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088266\_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-  
jar/org/springframework/security/web/csrf/MissingCsrfTokenException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069088266\_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-  
jar/org/springframework/security/web/authentication/session/SessionFixationProtectionStrategy.java

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\* /opt/ws\_local/PERMITS\_SQL/1069088266\_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-jar/org/springframework/security/web/util/matcher/OrRequestMatcher.java  
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* /opt/ws_local/PERMITS_SQL/1069088266_1594481093.18/0/spring-security-web-3-2-4-release-sources-1-
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/\*

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```
* /opt/ws_local/PERMITS_SQL/1069083168_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-
jar/org/springframework/security/crypto/bcrypt/BCrypt.java
```

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```
/**
```

```
* A token issued by { @link TokenService }.
```

```
*
```

```
* <p>
```

```
* It is important that the keys assigned to tokens are sufficiently randomised and secured that
* they can serve as identifying a unique user session. Implementations of { @link TokenService }
* are free to use encryption or encoding strategies of their choice. It is strongly recommended that
* keys are of sufficient length to balance safety against persistence cost. In relation to persistence
* cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.
```

```
* </p>
```

```
*
```

```
* @author Ben Alex
```

```
* @since 2.0.1
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069083168_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-
jar/org/springframework/security/core/token/Token.java
```

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- \* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/memory/InMemoryConfiguration.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/concurrent/AbstractDelegatingSecurityContextSupport.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/task/DelegatingSecurityContextAsyncTaskExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-

jar/org/springframework/security/scheduling/DelegatingSecurityContextSchedulingTaskExecutor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-  
jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-  
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```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-  
jar/org/springframework/security/access/method/P.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-  
jar/org/springframework/security/access/expression/method/ExpressionBasedAnnotationAttributeFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-  
jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java  
No license file was found, but licenses were detected in source scan.

```
/**  
* Base64 encoder which is a reduced version of Robert Harder's public domain implementation (version 2.3.7).  
* See <a href="http://iharder.net/base64">http://iharder.net/base64</a> for more information.  
* <p>  
* For internal use only.  
*  
* @author Luke Taylor  
* @since 3.0  
*/
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-  
jar/org/springframework/security/crypto/codec/Base64.java  
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```
/*
```

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```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069083168_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-
jar/org/springframework/security/core/parameters/AnnotationParameterNameDiscoverer.java
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*/
/**
* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest
Algorithm.
*
* @author Alan Stewart
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069083168_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-
jar/org/springframework/security/authentication/encoding/Md4.java
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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/encoding/Md4PasswordEncoder.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AccountExpiredException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/AfterInvocationProviderManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/memory/InMemoryDaoImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/AccessDeniedException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/dao/SystemWideSaltSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/dao/DaoAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AuthenticationTrustResolverImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/util/FieldUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/User.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/AuthenticationException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/util/SimpleMethodInvocation.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/session/SessionRegistryImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/encoding/BaseDigestPasswordEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/vote/UnanimousBased.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/TestingAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/dao/AbstractUserDetailsAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/JaasGrantedAuthority.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/aspectj/AspectJCallback.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/memory/UserAttribute.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/util/MethodInvocationUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/MethodInvocationPrivilegeEvaluator.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/context/SecurityContextHolderStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AuthenticationDetailsSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/LoggerListener.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/SpringSecurityMessageSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/context/SecurityContextHolder.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/RunAsManagerImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/GrantedAuthority.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AuthenticationFailureLockedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/AccessDecisionManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/event/AuthorizedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/annotation/SecuredAnnotationSecurityMetadataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/AuthorityGranter.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AbstractAuthenticationToken.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/TestingAuthenticationToken.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/JaasAuthenticationCallbackHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AuthenticationServiceException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/encoding/Md5PasswordEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/event/AbstractAuthorizationEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AbstractAuthenticationEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/context/SecurityContext.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/UserDetails.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AuthenticationCredentialsNotFoundException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AuthenticationFailureCredentialsExpiredEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/memory/UserMap.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/UserCache.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/dao/SaltSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AuthenticationFailureBadCredentialsEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/vote/AffirmativeBased.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/RememberMeAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/vote/AbstractAclVoter.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/event/LoggerListener.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationFailedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/method/MethodSecurityMetadataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AuthenticationFailureDisabledEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/RunAsUserToken.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AuthenticationFailureProviderNotFoundEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/NullRunAsManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/JaasNameCallbackHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/cache/EhCacheBasedUserCache.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/encoding/PasswordEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/encoding/LdapShaPasswordEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/cache/NullUserCache.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/DefaultLoginExceptionResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/CredentialsExpiredException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/vote/RoleVoter.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/SecurityConfig.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/DisabledException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/UsernamePasswordAuthenticationToken.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/context/SecurityContextImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/AfterInvocationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AuthenticationFailureExpiredEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/encoding/BasePasswordEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/InterceptorStatusToken.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/annotation/Secured.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/Authentication.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/InteractiveAuthenticationSuccessEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/AbstractSecurityInterceptor.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/util/InMemoryResource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/SecurityContextLoginModule.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/encoding/PlaintextPasswordEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/JaasAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/session/SessionInformation.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AnonymousAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/ConfigAttribute.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/annotation/Js250MethodSecurityMetadataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/event/PublicInvocationEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/vote/ConsensusBased.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AnonymousAuthenticationToken.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManagerImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/authority/GrantedAuthorityImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/vote/AbstractAccessDecisionManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/session/SessionRegistry.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/dao/ReflectionSaltSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/UserDetailsService.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/context/GlobalSecurityContextHolderStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/method/AbstractMethodSecurityMetadataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AuthenticationManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/SecurityMetadataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AbstractAuthenticationFailureEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationSuccessEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/ProviderNotFoundException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/RunAsManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/AccessDecisionVoter.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/jdbc/JdbcDaoImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/vote/AuthenticatedVoter.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/LockedException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/ProviderManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/BadCredentialsException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/event/AuthenticationCredentialsNotFoundEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/InsufficientAuthenticationException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/ConfigAttributeEditor.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/userdetails/memory/UserMapEditor.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/RememberMeAuthenticationToken.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AuthenticationTrustResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/JaasPasswordCallbackHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/session/SessionIdentifierAware.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/jaas/JaasAuthenticationToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/method/MapBasedMethodSecurityMetadataSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/RunAsImplAuthenticationProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/event/AuthorizationFailureEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/AuthorizationServiceException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/event/AuthenticationFailureServiceExceptionEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/core/context/InheritableThreadLocalSecurityContextHolderStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/encoding/ShaPasswordEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/authentication/AuthenticationProvider.java

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\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/hierarchicalroles/UserDetailsWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/encrypt/HexEncodingTextEncryptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/util/EncodingUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/encrypt/Encryptors.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/keygen/HexEncodingStringKeyGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/password/PasswordEncoder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/encrypt/CipherUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/keygen/StringKeyGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/encrypt/BytesEncryptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/password/Digester.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/crypto/keygen/KeyGenerators.java  
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```
/**  
 * Determines if the { @link #getAuthentication() } has permission to access the target given the permission  
 * @param target the target domain object to check permission on  
 * @param permission the permission to check on the domain object (i.e. "read", "write", etc).  
 * @return true if permission is granted to the { @link #getAuthentication() }, else false  
 */
```

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\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/expression/SecurityExpressionOperations.java  
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/\*\*

\* Reviews the `Object` returned from a secure object invocation,  
\* being able to modify the `Object` or throw an `{ @link`  
\* `AccessDeniedException}`.

\* `<p>`

\* Typically used to ensure the principal is permitted to access the domain  
\* object instance returned by a service layer bean. Can also be used to  
\* mutate the domain object instance so the principal is only able to access  
\* authorised bean properties or `Collection` elements.

\* `<p>`

\* Special consideration should be given to using an  
\* `AfterInvocationManager` on bean methods that modify a database.  
\* Typically an `AfterInvocationManager` is used with read-only  
\* methods, such as `public DomainObject getById(id)`. If used with  
\* methods that modify a database, a transaction manager should be used to  
\* ensure any `AccessDeniedException` will cause a rollback of the  
\* changes made by the transaction.

\* `</p>`

\*

\* @author Ben Alex

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/intercept/AfterInvocationManager.java

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/\*\*

\*

\* @param authentication represents the user in question. Should not be null.

\* @param targetDomainObject the domain object for which permissions should be checked. May be null

\* in which case implementations should return false, as the null condition can be checked explicitly

\* in the expression.

\* @param permission a representation of the permission object as supplied by the expression system. Not null.

\* @return true if the permission is granted, false otherwise

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1069083168\_1595277769.0/0/spring-security-core-3-2-4-release-sources-2-jar/org/springframework/security/access/PermissionEvaluator.java

## 1.277 woodstox-core 6.2.0

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## 1.278 reflections 0.9.10

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\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/spel/SimpleEvaluationContextFactory.java

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\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-

jar/org/springframework/binding/expression/ExpressionParser.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/expression/ParserException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/mapping/impl/DefaultMapping.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/mapping/Mapping.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/convert/ConversionException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/convert/service/DefaultConversionService.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/method/MethodInvocationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/mapping/Mapper.java  
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jar/org/springframework/binding/collection/SharedMapDecorator.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/StringToBigInteger.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/StringToObject.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/ArrayToCollection.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/EvaluationException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/method/MethodSignature.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/PropertyEditorConverter.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/ArrayToArray.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/ConversionExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/collection/MapAdaptable.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/StringToLong.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/StringToClass.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/ConversionExecutorNotFoundException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/support/CompositeStringExpression.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/ObjectToCollection.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/StringToFloat.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/service/StaticConversionExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/Expression.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/StringToCharacter.java
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jar/org/springframework/binding/convert/converters/StringToBoolean.java  
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jar/org/springframework/binding/method/Parameters.java  
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jar/org/springframework/binding/convert/converters/StringToEnum.java  
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jar/org/springframework/binding/convert/converters/Converter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/convert/service/NoOpConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/convert/converters/ReverseConverter.java  
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jar/org/springframework/binding/method/Parameter.java  
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- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/validation/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/FormattedStringToNumber.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/service/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/converters/StringToDate.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/convert/service/RuntimeBindingConversionExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/PropertyNotFoundException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/collection/SharedMap.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/support/NullParserContext.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/el/ELExpression.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/support/LiteralExpression.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/collection/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/message/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/mapping/impl/DefaultMappingContext.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/mapping/results/package-info.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/package-info.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/method/MethodInvoker.java
- \* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/el/MapAdaptableELResolver.java

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\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/format/DefaultNumberFormatFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/format/PercentNumberFormatFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/expression/el/DefaultELContext.java

\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-jar/org/springframework/binding/format/IntegerNumberFormatFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-

jar/org/springframework/binding/message/MessageCriteria.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/mapping/results/SourceAccessError.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/message/Severity.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/mapping/results/RequiredError.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/mapping/results/TypeConversionError.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/message/DefaultMessageResolver.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/message/StateManageableMessageContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1069089759\_1594483164.64/0/spring-binding-2-5-1-release-sources-  
jar/org/springframework/binding/expression/beanwrapper/BeanWrapperExpressionParser.java

# 1.283 commons-dbcp 2.0.1

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# 1.285 jersey-client 2.24.1

## 1.286 commons-exec 1.3

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## 1.288 opentracing-tracerresolver 0.1.4

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# 1.289 object-cache-guava 0.8.3

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# 1.293 opencensus-api 0.10.0

## 1.294 commons-beanutils 1.9.4

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## 1.296 concepts 0.8.4-beryllium-sr4

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Found in path(s):

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-jar/META-

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jar/io/opentracing/util/AutoFinishScopeManager.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-  
jar/io/opentracing/util/ThreadLocalScope.java

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jar/io/opentracing/util/ThreadLocalScopeManager.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-  
jar/io/opentracing/util/GlobalTracer.java

\* /opt/cola/permits/1000099241\_1646171463.16/0/opentracing-util-0-31-0-sources-  
jar/io/opentracing/util/AutoFinishScope.java

## 1.301 jama 1.0.3

## 1.302 spring-osgi-io 1.2.1

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## 1.304 hk2-core-module 2.5.0-b05

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## 1.308 javax-el-api 2.2.4

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## 1.313 servlet-api 3.1.0

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* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/support/incrementer/HanaSequenceMaxValueIncrementer.java  
* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-
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jar/org/springframework/jdbc/core/PreparedStatementCreatorFactory.java  
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jar/org/springframework/jdbc/core/metadata/TableMetaDataContext.java  
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jar/org/springframework/jdbc/support/SQLExceptionCodesFactory.java  
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jar/org/springframework/jdbc/core/SqlReturnResultSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/namedparam/BeanPropertySqlParameterSource.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/lookup/IsolationLevelDataSourceRouter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/config/InitializeDatabaseBeanDefinitionParser.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/incrementer/DB2MainframeSequenceMaxValueIncrementer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/DisposableSqlTypeValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/object/MappingSqlQuery.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/namedparam/ParsedSql.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/xml/SqlXmlValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/incrementer/DB2SequenceMaxValueIncrementer.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/metadata/SybaseCallMetaDataProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/incrementer/DataFieldMaxValueIncrementer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/metadata/SqlServerCallMetaDataProvider.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/WebLogicNativeJdbcExtractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/namedparam/EmptySqlParameterSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/support/AbstractLobCreatingPreparedStatementCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/CannotGetJdbcConnectionException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/WebSphereNativeJdbcExtractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/lob/AbstractLobHandler.java

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/\*\*

\* { @link LobHandler } implementation for Oracle databases. Uses proprietary API

\* to create { @code oracle.sql.BLOB } and { @code oracle.sql.CLOB }

\* instances, as necessary when working with Oracle's JDBC driver.

\* Note that this LobHandler requires Oracle JDBC driver 9i or higher!

\*

\* <p>While most databases are able to work with { @link DefaultLobHandler },

\* Oracle 9i (or more specifically, the Oracle 9i JDBC driver) just accepts

\* Blob/Clob instances created via its own proprietary BLOB/CLOB API,

\* and additionally doesn't accept large streams for PreparedStatement's

\* corresponding setter methods. Therefore, you need to use a strategy like

\* this LobHandler implementation, or upgrade to the Oracle 10g/11g driver

\* (which still supports access to Oracle 9i databases).

\*

\* <p><b>NOTE: As of Oracle 10.2, { @link DefaultLobHandler } should work equally

\* well out of the box. On Oracle 11g, JDBC 4.0 based options such as

\* { @link DefaultLobHandler#setStreamAsLob } and { @link DefaultLobHandler#setCreateTemporaryLob }

\* are available as well, rendering this proprietary OracleLobHandler obsolete.</b>

\* Also, consider upgrading to a new driver even when accessing an older database.

\* See the { @link LobHandler } interface javadoc for a summary of recommendations.

\*

\* <p>Needs to work on a native JDBC Connection, to be able to cast it to

\* { @code oracle.jdbc.OracleConnection }. If you pass in Connections from a

\* connection pool (the usual case in a Java EE environment), you need to set an

\* appropriate { @link org.springframework.jdbc.support.nativejdbc.NativeJdbcExtractor }

\* to allow for automatic retrieval of the underlying native JDBC Connection.

\* LobHandler and NativeJdbcExtractor are separate concerns, therefore they

\* are represented by separate strategy interfaces.

\*

\* <p>Coded via reflection to avoid dependencies on Oracle classes.

\* Even reads in Oracle constants via reflection because of different Oracle

- \* drivers (classes12, ojdbc14, ojdbc5, ojdbc6) having different constant values!
- \* As this LobHandler initializes Oracle classes on instantiation, do not define
- \* this as eager-initializing singleton if you do not want to depend on the Oracle
- \* JAR being in the class path: use "lazy-init=true" to avoid this issue.
- \*
- \* @author Juergen Hoeller
- \* @author Thomas Risberg
- \* @since 04.12.2003
- \* @see DefaultLobHandler
- \* @see #setNativeJdbcExtractor
- \* @deprecated in favor of { @link DefaultLobHandler } for the Oracle 10g driver and
- \* higher. Consider using the 10g/11g driver even against an Oracle 9i database!
- \* { @link DefaultLobHandler#setCreateTemporaryLob } is the direct equivalent of this
- \* OracleLobHandler's implementation strategy, just using standard JDBC 4.0 API.
- \* That said, in most cases, regular DefaultLobHandler setup will work fine as well.
- \*/

Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/lob/OracleLobHandler.java

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\*/

/\*\*

- \* Strategy interface for translating between { @link SQLException SQLExceptions }

- \* and Spring's data access strategy-agnostic { @link DataAccessException }

- \* hierarchy.

\*

- \* <p>Implementations can be generic (for example, using

- \* { @link java.sql.SQLException#getSQLState() SQLState } codes for JDBC) or wholly

- \* proprietary (for example, using Oracle error codes) for greater precision.

\*

- \* @author Rod Johnson

- \* @author Juergen Hoeller

\* @see org.springframework.dao.DataAccessException

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/SQLExceptionTranslator.java

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/\*\*

\* Close this LobCreator session and free its temporarily created BLOBs and CLOBs.

\* Will not need to do anything if using PreparedStatement's standard methods,

\* but might be necessary to free database resources if using proprietary means.

\* **NOTE**: Needs to be invoked after the involved PreparedStatements have

\* been executed or the affected O/R mapping sessions have been flushed.

\* Otherwise, the database resources for the temporary BLOBs might stay allocated.

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/lob/LobCreator.java

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Found in path(s):

- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/SQLStateSQLExceptionTranslator.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/ConnectionProperties.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/init/UncategorizedScriptException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/CustomSQLExceptionCodesTranslation.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/init/ScriptException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/incrementer/AbstractIdentityColumnMaxValueIncrementer.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/init/ScriptParseException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/init/CannotReadScriptException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/rowset/SqlRowSetMetaData.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/incrementer/AbstractColumnMaxValueIncrementer.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/SQLExceptionSubclassTranslator.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactoryBean.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/incrementer/HsqlMaxValueIncrementer.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/object/StoredProcedure.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSet.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/lob/DefaultLobHandler.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/init/DatabasePopulator.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/incrementer/SqlServerMaxValueIncrementer.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/namedparam/MapSqlParameterSource.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/ParameterizedPreparedStatementSetter.java
- \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/rowset/ResultSetWrappingSqlRowSetMetaData.java

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* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-
jar/org/springframework/jdbc/datasource/embedded/DataSourceFactory.java
* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-
jar/org/springframework/jdbc/support/incrementer/DerbyMaxValueIncrementer.java
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```
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```
/**
```

```
* Abstraction for handling large binary fields and large text fields in
```

```
* specific databases, no matter if represented as simple types or Large Objects.
```

```
* Its main purpose is to isolate Oracle 9i's peculiar handling of LOBs in
```

```
* {@link OracleLobHandler}; most other databases should be able to work
```

```
* with the provided {@link DefaultLobHandler}.
```

```
*
```

```
* <p>Provides accessor methods for BLOBs and CLOBs, and acts as factory for
```

```
* LobCreator instances, to be used as sessions for creating BLOBs or CLOBs.
```

```
* LobCreators are typically instantiated for each statement execution or for
```

```
* each transaction; they are not thread-safe because they might track
```

```
* allocated database resources in order to free them after execution.
```

```
*
```

```
* <p>Most databases/drivers should be able to work with {@link DefaultLobHandler},
```

```
* which by default delegates to JDBC's direct accessor methods, avoiding the
```

```
* {@code java.sql.Blob} and {@code java.sql.Clob} API completely.
```

```
* {@link DefaultLobHandler} can also be configured to access LOBs using
```

```
* {@code PreparedStatement.setBlob/setClob} (e.g. for PostgreSQL), through
```

```
* setting the {@link DefaultLobHandler#setWrapAsLob "wrapAsLob"} property.
```

```
*
```

```
* <p>Unfortunately, Oracle 9i just accepts Blob/Clob instances created via its own
```

```
* proprietary BLOB/CLOB API, and additionally doesn't accept large streams for
```

```
* PreparedStatement's corresponding setter methods. Therefore, you need to use
```

```
* {@link OracleLobHandler} there, which uses Oracle's BLOB/CLOB API for both types
```

```
* of access. The Oracle 10g+ JDBC driver will work with {@link DefaultLobHandler}
```

```
* as well, with some limitations in terms of LOB sizes depending on DBMS setup;
```

```
* as of Oracle 11g (or actually, using the 11g driver even against older databases),
```

\* there should be no need to use { @link OracleLobHandler } at all anymore.  
 \*  
 \* <p>Of course, you need to declare different field types for each database.  
 \* In Oracle, any binary content needs to go into a BLOB, and all character content  
 \* beyond 4000 bytes needs to go into a CLOB. In MySQL, there is no notion of a  
 \* CLOB type but rather a LONGTEXT type that behaves like a VARCHAR. For complete  
 \* portability, use a LobHandler for fields that might typically require LOBs on  
 \* some database because of the field size (take Oracle's numbers as a guideline).  
 \*  
 \* <p><b>Summarizing the recommended options (for actual LOB fields):</b></p>  
 \* <ul>  
 \* <li><b>JDBC 4.0 driver (including Oracle 11g driver):</b> Use { @link DefaultLobHandler },  
 \* potentially with { @code streamAsLob=true } if your database driver requires that  
 \* hint when populating a LOB field. Fall back to { @code createTemporaryLob=true }  
 \* if you happen to run into LOB size limitations with your (Oracle) database setup.  
 \* <li><b>Oracle 10g driver:</b> Use { @link DefaultLobHandler } with standard setup.  
 \* On Oracle 10.1, set the "SetBigStringTryClob" connection property; as of Oracle 10.2,  
 \* DefaultLobHandler should work with standard setup out of the box. Alternatively,  
 \* consider using the proprietary { @link OracleLobHandler } (see below).  
 \* <li><b>Oracle 9i driver:</b> Use { @link OracleLobHandler } with a connection-pool-specific  
 \* { @link OracleLobHandler#setNativeJdbcExtractor NativeJdbcExtractor }.  
 \* <li><b>PostgreSQL:</b> Configure { @link DefaultLobHandler } with { @code wrapAsLob=true },  
 \* and use that LobHandler to access OID columns (but not BYTEA) in your database tables.  
 \* <li>For all other database drivers (and for non-LOB fields that might potentially  
 \* turn into LOBs on some databases): Simply use a plain { @link DefaultLobHandler }.
 \* </ul>  
 \*  
 \* @author Juergen Hoeller  
 \* @since 23.12.2003  
 \* @see DefaultLobHandler  
 \* @see OracleLobHandler  
 \* @see java.sql.ResultSet#getBlob  
 \* @see java.sql.ResultSet#getClob  
 \* @see java.sql.ResultSet#getBytes  
 \* @see java.sql.ResultSet#getBinaryStream  
 \* @see java.sql.ResultSet#getString  
 \* @see java.sql.ResultSet#getAsciiStream  
 \* @see java.sql.ResultSet#getCharacterStream  
 \*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/lob/LobHandler.java

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\* The classes in this package make JDBC easier to use and  
 \* reduce the likelihood of common errors. In particular, they:

- \* <ul>
- \* <li>Simplify error handling, avoiding the need for try/catch/finally blocks in application code.
- \* <li>Present exceptions to application code in a generic hierarchy of unchecked exceptions, enabling applications to catch data access exceptions without being dependent on JDBC, and to ignore fatal exceptions there is no value in catching.
- \* <li>Allow the implementation of error handling to be modified to target different RDBMSes without introducing proprietary dependencies into application code.
- \* </ul>
- \*
- \* <p>This package and related packages are discussed in Chapter 9 of <a href="http://www.amazon.com/exec/obidos/tg/detail/-/0764543857/">Expert One-On-One J2EE Design and Development</a>
- \* by Rod Johnson (Wrox, 2002).
- \*/

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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/SingleColumnRowMapper.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/config/EmbeddedDatabaseBeanDefinitionParser.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/xml/SqlXmlHandler.java  
 \* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/CommonsDbcNativeJdbcExtractor.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseBuilder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/xml/Jdbc4SqlXmlHandler.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/init/ScriptStatementFailedException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabase.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/SimpleNativeJdbcExtractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/DriverManagerDataSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/embedded/AbstractEmbeddedDatabaseConfigurer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/simple/SimpleJdbcCallOperations.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/SqlRowSetResultSetExtractor.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/support/SqlLobValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/JdbcTemplate.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/DataSourceUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-

jar/org/springframework/jdbc/datasource/init/DatabasePopulatorUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/namedparam/NamedParameterBatchUpdateUtils.java  
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jar/org/springframework/jdbc/core/support/JdbcBeanDefinitionReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/TransactionAwareDataSourceProxy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
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jar/org/springframework/jdbc/core/BeanPropertyRowMapper.java  
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jar/org/springframework/jdbc/core/SqlParameterValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/init/ResourceDatabasePopulator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/namedparam/SqlParameterSourceUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/JdbcTransactionObjectSupport.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/ParameterDisposer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/support/DatabaseStartupValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/metadata/CallMetaDataProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/BatchUpdateUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/metadata/PostgresCallMetaDataProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/RowMapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/support/AbstractFallbackSQLExceptionTranslator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/DataSourceTransactionManager.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/metadata/OracleCallMetaDataProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/object/RdbmsOperation.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-

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jar/org/springframework/jdbc/datasource/init/DataSourceInitializer.java
* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-
jar/org/springframework/jdbc/core/RowCountCallbackHandler.java
* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseFactory.java
* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-
jar/org/springframework/jdbc/core/simple/SimpleJdbcInsertOperations.java
* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-
jar/org/springframework/jdbc/core/simple/SimpleJdbcInsert.java
* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-
jar/org/springframework/jdbc/support/incrementer/MySQLMaxValueIncrementer.java
* /opt/ws_local/PERMITS_SQL/1069083130_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-
jar/org/springframework/jdbc/datasource/SimpleDriverDataSource.java
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*/
/**
* Implement this interface when parameters need to be customized based
* on the connection. We might need to do this to make use of proprietary
* features, available only with a specific Connection type.
*
* @author Rod Johnson
* @author Thomas Risberg
* @see CallableStatementCreatorFactory#newCallableStatementCreator(ParameterMapper)
* @see org.springframework.jdbc.object.StoredProcedure#execute(ParameterMapper)
*/
/**
* Create a Map of input parameters, keyed by name.
* @param con JDBC connection. This is useful (and the purpose of this interface)
* if we need to do something RDBMS-specific with a proprietary Connection
* implementation class. This class conceals such proprietary details. However,
* it is best to avoid using such proprietary RDBMS features if possible.
* @throws SQLException if a SQLException is encountered setting
* parameter values (that is, there's no need to catch SQLException)
```

\* @return Map of input parameters, keyed by name (never { @code null})

\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/ParameterMapper.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/lob/PassThroughBlob.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/object/SqlCall.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/lob/ItaLobCreatorSynchronization.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/IsolationLevelDataSourceAdapter.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/MetaDataAccessException.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/xml/XmlBinaryStreamProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/SqlValue.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/lookup/IndiDataSourceLookup.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/object/SqlUpdate.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/xml/XmlResultProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/incrementer/AbstractSequenceMaxValueIncrementer.java

\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-

jar/org/springframework/jdbc/core/PreparedStatementSetter.java  
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jar/org/springframework/jdbc/support/nativejdbc/OracleJdbc4NativeJdbcExtractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/SimpleConnectionHandle.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/AbstractDataSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/support/incrementer/AbstractDataFieldMaxValueIncrementer.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/SqlTypeValue.java  
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jar/org/springframework/jdbc/object/MappingSqlQueryWithParameters.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/lookup/SingleDataSourceLookup.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/RowMapperResultSetExtractor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
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jar/org/springframework/jdbc/object/GenericStoredProcedure.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/support/AbstractInterruptibleBatchPreparedStatementSetter.java  
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jar/org/springframework/jdbc/config/JdbcNamespaceHandler.java  
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jar/org/springframework/jdbc/core/namedparam/AbstractSqlParameterSource.java  
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jar/org/springframework/jdbc/datasource/SmartDataSource.java  
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jar/org/springframework/jdbc/SQLWarningException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
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jar/org/springframework/jdbc/support/GeneratedKeyHolder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/lookup/AbstractRoutingDataSource.java  
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jar/org/springframework/jdbc/core/CallableStatementCallback.java  
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jar/org/springframework/jdbc/BadSqlGrammarException.java  
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jar/org/springframework/jdbc/support/KeyHolder.java  
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jar/org/springframework/jdbc/JdbcUpdateAffectedIncorrectNumberOfRowsException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/InterruptibleBatchPreparedStatementSetter.java  
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jar/org/springframework/jdbc/core/support/JdbcDaoSupport.java  
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jar/org/springframework/jdbc/datasource/lookup/DataSourceLookupFailureException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/SqlProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/core/support/AbstractLobStreamingResultSetExtractor.java  
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jar/org/springframework/jdbc/object/SqlOperation.java  
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jar/org/springframework/jdbc/core/support/AbstractSqlTypeValue.java  
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jar/org/springframework/jdbc/datasource/lookup/BeanFactoryDataSourceLookup.java  
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jar/org/springframework/jdbc/core/CallableStatementCreator.java  
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jar/org/springframework/jdbc/datasource/DelegatingDataSource.java  
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jar/org/springframework/jdbc/IncorrectResultSetColumnCountException.java  
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jar/org/springframework/jdbc/datasource/embedded/SimpleDriverDataSourceFactory.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/support/xml/SqlXmlFeatureNotImplementedException.java  
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jar/org/springframework/jdbc/LobRetrievalFailureException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/support/CustomSQLExceptionTranslatorRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/embedded/OutputStreamFactory.java  
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jar/org/springframework/jdbc/support/nativejdbc/NativeJdbcExtractorAdapter.java  
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jar/org/springframework/jdbc/config/SortedResourcesFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/InvalidResultSetAccessException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/datasource/embedded/EmbeddedDatabaseType.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-  
jar/org/springframework/jdbc/support/nativejdbc/JBossNativeJdbcExtractor.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/AbstractDriverBasedDataSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/UserCredentialsDataSourceAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/object/GenericSqlQuery.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/init/CompositeDatabasePopulator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/config/DatabasePopulatorConfigUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/ConnectionCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/ConnectionHolder.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/core/PreparedStatementCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/datasource/ConnectionHandle.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/SQLExceptionCodes.java  
\* /opt/ws\_local/PERMITS\_SQL/1069083130\_1594481868.24/0/spring-jdbc-4-3-19-release-sources-1-jar/org/springframework/jdbc/support/DatabaseMetaDataCallback.java

## 1.316 spring-retry 1.0.3.RELEASE

## 1.317 xsom 20110809

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# 1.319 typetools 0.3.1

# 1.320 jackson-dataformat-yaml 2.10.4

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# 1.327 bson 3.12.4

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/util/AbstractCopyOnWriteMap.java

\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/util/CopyOnWriteMap.java

\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/assertions/Assertions.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonRegularExpression.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonNullCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonDocumentWrapperCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonInt32Converter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/BsonDiscriminator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/MapPropertyCodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/UuidRepresentation.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/FloatCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/internal/UuidHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ObjectIdGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonStringBuffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonDocumentWrapper.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/LazyPojoCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/RawBsonDocument.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/CodeWScope.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/NoOpFieldNameValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/DocumentCodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/PojoCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ShellObjectIdConverter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonBinaryReader.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/configuration/package-info.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/internal/CodecCache.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/LazyBSONObject.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BasicBSONEncoder.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/Code.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonUndefinedCodec.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonMinKeyCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionUseGettersAsSettersImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/DecoderContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonMaxKeyConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonTimestampConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonStreamBuffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/UuidCodec.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/BsonInputMark.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/Binary.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonInt64Converter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/StringCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/RelaxedExtendedJsonDoubleConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonBinaryCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BSONCallbackAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonJavaScriptCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/SymbolCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/BsonProperty.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/util/ComputingMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyReflectionUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyModel.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BooleanCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/configuration/CodecRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonScanner.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/IdGenerator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ExtendedJsonMinKeyConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/package-info.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/EmptyBSONCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ShellMaxKeyConverter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/configuration/CodecConfigurationException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/PojoBuilderHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/InstanceCreatorFactoryImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonDocumentCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonDBPointerCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/FieldNameValidator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/ClassModel.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/Transformer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/TypeWithTypeParameters.java

\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonJavaScriptWithScope.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/diagnostics/Logger.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/LazyBSONCallback.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/ConventionSetPrivateFieldImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/RawBsonValueHelper.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/CreatorExecutable.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonTimestamp.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/Convention.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/BasicOutputBuffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonBuffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonMaximumSizeExceededException.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/FallbackPropertyCodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-

jar/org/bson/codecs/jsr310/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/PropertyAccessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ByteArrayCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/internal/CycleDetectingCodecRegistry.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/conversions/package-info.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/MapCodec.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/ShellMinKeyConverter.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/internal/OverridableUuidRepresentationCodecRegistry.java  
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\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/BsonInput.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonElement.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonStringCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/Bits.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonSymbolConverter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/StringRangeSet.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BinaryCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonInt64.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonValueCodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BSONCallback.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/RelaxedExtendedJsonInt64Converter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonDecimal128.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/annotations/BsonCreator.java

\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/InstanceCreator.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/AtomicBooleanCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/InstanceCreatorImpl.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/OverridableUuidRepresentationUuidCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/types/CodeWithScope.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/ValueCodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/json/JsonMode.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/TypeParameterMap.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonBinaryWriter.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/TypeData.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/CodeCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/pojo/CollectionPropertyCodecProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/io/OutputBuffer.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/diagnostics/JULLogger.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/diagnostics/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/StringUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/AbstractBsonReader.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/BsonArrayCodec.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonValue.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/ByteBufNIO.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/BsonObjectId.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/package-info.java  
\* /opt/ws\_local/PERMITS\_SQL/1084247314\_1598436438.69/0/bson-3-12-4-sources-jar/org/bson/codecs/Codec.java

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* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/IdGenerators.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/IdGenerator.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/IdPropertyModelHolder.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/pojo/ConventionObjectIdGeneratorsImpl.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/BsonCodecProvider.java
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```
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
```

```
jar/org/bson/codecs/jsr310/Js310CodecProvider.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/InstantCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalDateTimeCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalDateCodec.java
* /opt/ws_local/PERMITS_SQL/1084247314_1598436438.69/0/bson-3-12-4-sources-
jar/org/bson/codecs/jsr310/LocalTimeCodec.java
```

## 1.328 bson4jackson 2.7.0

## 1.329 swagger-jaxrs 1.5.0

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jar/io/swagger/jaxrs/Reader.java
* /opt/ws_local/PERMITS_SQL/1018976916_1591387966.4/0/swagger-jaxrs-1-5-0-sources-
jar/io/swagger/jaxrs/config/ReaderListener.java
* /opt/ws_local/PERMITS_SQL/1018976916_1591387966.4/0/swagger-jaxrs-1-5-0-sources-
jar/io/swagger/jaxrs/json/JacksonJsonProvider.java
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# 1.330 antlr-runtime 4.5

## 1.331 aspectj-tools 1.9.2

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jar/io/opentracing/tag/BooleanTag.java
* /opt/ws_local/PERMITS_SQL/1085028476_1598867681.88/0/opentracing-api-0-31-0-sources-1-
jar/io/opentracing/tag/StringTag.java
* /opt/ws_local/PERMITS_SQL/1085028476_1598867681.88/0/opentracing-api-0-31-0-sources-1-
jar/io/opentracing/tag/IntTag.java
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jar/io/opentracing/Scope.java
* /opt/ws_local/PERMITS_SQL/1085028476_1598867681.88/0/opentracing-api-0-31-0-sources-1-
jar/io/opentracing/ScopeManager.java
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jar/io/opentracing/tag/AbstractTag.java
```

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\* /opt/ws\_local/PERMITS\_SQL/1085028476\_1598867681.88/0/opentracing-api-0-31-0-sources-1-jar/io/opentracing/Span.java  
\* /opt/ws\_local/PERMITS\_SQL/1085028476\_1598867681.88/0/opentracing-api-0-31-0-sources-1-jar/io/opentracing/SpanContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1085028476\_1598867681.88/0/opentracing-api-0-31-0-sources-1-jar/io/opentracing/propagation/TextMapInjectAdapter.java  
\* /opt/ws\_local/PERMITS\_SQL/1085028476\_1598867681.88/0/opentracing-api-0-31-0-sources-1-jar/io/opentracing/tag/Tags.java  
\* /opt/ws\_local/PERMITS\_SQL/1085028476\_1598867681.88/0/opentracing-api-0-31-0-sources-1-jar/io/opentracing/tag/IntOrStringTag.java  
\* /opt/ws\_local/PERMITS\_SQL/1085028476\_1598867681.88/0/opentracing-api-0-31-0-sources-1-jar/io/opentracing/Tracer.java  
\* /opt/ws\_local/PERMITS\_SQL/1085028476\_1598867681.88/0/opentracing-api-0-31-0-sources-1-jar/io/opentracing/propagation/Format.java  
\* /opt/ws\_local/PERMITS\_SQL/1085028476\_1598867681.88/0/opentracing-api-0-31-0-sources-1-jar/io/opentracing/log/Fields.java  
\* /opt/ws\_local/PERMITS\_SQL/1085028476\_1598867681.88/0/opentracing-api-0-31-0-sources-1-jar/io/opentracing/propagation/TextMap.java  
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## 1.334 owlapi-rio 4.2.7

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Version 3, 29 June 2007

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## 1.339 classmate 1.0.0

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Java ClassMate library was originally written by Tatu Saloranta (tatu.saloranta@iki.fi)

Other developers who have contributed code are:

\* Brian Langel

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\* /opt/ws\_local/PERMITS\_SQL/1069083493\_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/factorybeans/RuntimeManagerFactoryBean.java

\* /opt/ws\_local/PERMITS\_SQL/1069083493\_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/LoggerDefinitionParser.java

\* /opt/ws\_local/PERMITS\_SQL/1069083493\_1594481544.43/0/kie-spring-6-5-0-final-sources-1-jar/org/kie/spring/namespace/KStoreDefinitionParser.java

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

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- \* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/assembler/AbstractConfigurableMBeanInfoAssembler.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/format/number/money/MonetaryAmountFormatter.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/scripting/support/StandardScriptEvalException.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/format/datetime/joda/PeriodFormatter.java

```
* /opt/ws_local/PERMITS_SQL/1069084994_1594481573.42/0/spring-context-4-3-19-release-sources-1-
jar/org/springframework/format/datetime/joda/YearMonthFormatter.java
* /opt/ws_local/PERMITS_SQL/1069084994_1594481573.42/0/spring-context-4-3-19-release-sources-1-
jar/org/springframework/scheduling/config/AnnotationDrivenBeanDefinitionParser.java
* /opt/ws_local/PERMITS_SQL/1069084994_1594481573.42/0/spring-context-4-3-19-release-sources-1-
jar/org/springframework/format/number/money/CurrencyUnitFormatter.java
* /opt/ws_local/PERMITS_SQL/1069084994_1594481573.42/0/spring-context-4-3-19-release-sources-1-
jar/org/springframework/format/datetime/standard/DurationFormatter.java
* /opt/ws_local/PERMITS_SQL/1069084994_1594481573.42/0/spring-context-4-3-19-release-sources-1-
jar/org/springframework/format/number/money/Jsr354NumberFormatAnnotationFormatterFactory.java
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```

```
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* WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
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* limitations under the License.
*/
/**
* {@link FactoryBean} that obtains a WebSphere {@link javax.management.MBeanServer}
* reference through WebSphere's proprietary {@code AdminServiceFactory} API,
* available on WebSphere 5.1 and higher.
*
* <p>Exposes the {@code MBeanServer} for bean references.
* This FactoryBean is a direct alternative to {@link MBeanServerFactoryBean},
* which uses standard JMX 1.2 API to access the platform's MBeanServer.
*
* <p>See the javadocs for WebSphere's
* <a href="http://bit.ly/UzccDt">{@code AdminServiceFactory}</a>
* and <a href="http://bit.ly/TRIX2r">{@code MBeanFactory}</a>.
*
* @author Juergen Hoeller
* @author Rob Harrop
* @since 2.0.3
* @see javax.management.MBeanServer
* @see MBeanServerFactoryBean
*/
```

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/support/WebSphereMBeanServerFactoryBean.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedOperation.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/annotation/ScopedProxyCreator.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/LifecycleProcessor.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/MBeanExportOperations.java

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 * distributed under the License is distributed on an "AS IS" BASIS,
 * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
 * See the License for the specific language governing permissions and
 * limitations under the License.
 */
/**
 * Indicates that a component is only eligible for registration when all
 * { @linkplain #value specified conditions } match.
 *
 * <p>A <em>condition</em> is any state that can be determined programmatically
 * before the bean definition is due to be registered (see { @link Condition } for details).
 *
 * <p>The { @code @Conditional } annotation may be used in any of the following ways:
 * <ul>
 * <li>as a type-level annotation on any class directly or indirectly annotated with
 * { @code @Component }, including { @link Configuration @Configuration } classes</li>
 * <li>as a meta-annotation, for the purpose of composing custom stereotype
 * annotations</li>
 * <li>as a method-level annotation on any { @link Bean @Bean } method</li>
 * </ul>
 *
 * <p>If a { @code @Configuration } class is marked with { @code @Conditional },
 * all of the { @code @Bean } methods, { @link Import @Import } annotations, and
 * { @link ComponentScan @ComponentScan } annotations associated with that
 * class will be subject to the conditions.
 *
 * <p><strong>NOTE</strong>: Inheritance of { @code @Conditional } annotations
 * is not supported; any conditions from superclasses or from overridden
 * methods will not be considered. In order to enforce these semantics,
 * { @code @Conditional } itself is not declared as
 * { @link java.lang.annotation.Inherited @Inherited }; furthermore, any
 * custom <em>composed annotation</em> that is meta-annotated with
 * { @code @Conditional } must not be declared as { @code @Inherited }.
 *
 * @author Phillip Webb
 * @author Sam Brannen
```

\* @since 4.0  
\* @see Condition  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/annotation/Conditional.java

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Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/format/Formatter.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/notification/NotificationPublisher.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/naming/SelfNaming.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/UnableToRegisterMBeanException.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/scripting/groovy/GroovyObjectCustomizer.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jndi/JndiLookupFailureException.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/scheduling/config/TaskNamespaceHandler.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/remoting/rmi/JndiRmiServiceExporter.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/format/FormatterRegistrar.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/metadata/ManagedResource.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/scheduling/config/Task.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/validation/beanvalidation/BeanValidationPostProcessor.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jndi/JndiTemplateEditor.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/ui/context/HierarchicalThemeSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/access/NotificationListenerRegistrar.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/metadata/JmxAttributeSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/support/MBeanServerConnectionFactoryBean.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/access/ContextSingletonBeanFactoryLocator.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/remoting/rmi/RmiProxyFactoryBean.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/Phased.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/MessageSourceResolvable.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/ejb/access/AbstractRemoteSlsbInvokerInterceptor.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationBasedAccessor.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/validation/Validator.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jndi/JndiTemplate.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/validation/SmartValidator.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/scheduling/Trigger.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/assembly/AbstractMBeanInfoAssembler.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/support/ObjectNameManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/MBeanExporterListener.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/config/MBeanExportBeanDefinitionParser.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/scheduling/support/ScheduledMethodRunnable.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/ApplicationContextAware.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/support/LiveBeansViewMBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/validation/Errors.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/remoting/rmi/CodebaseAwareObjectInputStream.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/remoting/support/RemoteInvocationUtils.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/access/ContextJndiBeanFactoryLocator.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/naming/IdentityNamingStrategy.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/HierarchicalMessageSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/remoting/support/UrlBasedRemoteAccessor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/scheduling/TriggerContext.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/cache/concurrent/ConcurrentMapCacheFactoryBean.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/ejb/access/SimpleRemoteSlsbInvokerInterceptor.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/scripting/support/RefreshableScriptTargetSource.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/remoting/rmi/RmiBasedExporter.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/MBeanServerNotFoundException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/MBeanExportException.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/validation/AbstractBindingResult.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/event/ContextStartedEvent.java  
\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/event/ApplicationContextEvent.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/config/ContextNamespaceHandler.java  
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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jndi/JndiObjectTargetSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/ejb/access/SimpleRemoteStatelessSessionProxyFactoryBean.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/format/number/AbstractNumberFormatter.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/validation/BindingErrorProcessor.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/notification/UnableToSendNotificationException.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/access/DefaultLocatorFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/cache/interceptor/CacheInterceptor.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/annotation/LoadTimeWeavingConfigurer.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/remoting/RemoteProxyFailureException.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/jmx/export/metadata/InvalidMetadataException.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/context/event/ContextStoppedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/ui/context/support/SimpleTheme.java

\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/instrument/classloading/LoadTimeWeaver.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/scheduling/TaskScheduler.java

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\* /opt/ws\_local/PERMITS\_SQL/1069084994\_1594481573.42/0/spring-context-4-3-19-release-sources-1-jar/org/springframework/cache/support/NullValue.java  
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```
*/
```

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compiler/cpp/src/generate/t\_cpp\_generator.cc  
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compiler/cpp/src/generate/t\_erl\_generator.cc  
compiler/cpp/src/generate/t\_hs\_generator.cc  
compiler/cpp/src/generate/t\_java\_generator.cc  
compiler/cpp/src/generate/t\_ocaml\_generator.cc  
compiler/cpp/src/generate/t\_perl\_generator.cc  
compiler/cpp/src/generate/t\_php\_generator.cc  
compiler/cpp/src/generate/t\_py\_generator.cc  
compiler/cpp/src/generate/t\_rb\_generator.cc  
compiler/cpp/src/generate/t\_st\_generator.cc  
compiler/cpp/src/generate/t\_xsd\_generator.cc  
compiler/cpp/src/main.cc  
compiler/cpp/src/parse/t\_field.h  
compiler/cpp/src/parse/t\_program.h  
compiler/cpp/src/platform.h

```
compiler/cpp/src/thriftl.ll
compiler/cpp/src/thrift.y
lib/csharp/src/Protocol/TBinaryProtocol.cs
lib/csharp/src/Protocol/TField.cs
lib/csharp/src/Protocol/TList.cs
lib/csharp/src/Protocol/TMap.cs
lib/csharp/src/Protocol/TMessage.cs
lib/csharp/src/Protocol/TMessageType.cs
lib/csharp/src/Protocol/TProtocol.cs
lib/csharp/src/Protocol/TProtocolException.cs
lib/csharp/src/Protocol/TProtocolFactory.cs
lib/csharp/src/Protocol/TProtocolUtil.cs
lib/csharp/src/Protocol/TSet.cs
lib/csharp/src/Protocol/TStruct.cs
lib/csharp/src/Protocol/TType.cs
lib/csharp/src/Server/TServer.cs
lib/csharp/src/Server/TSimpleServer.cs
lib/csharp/src/Server/TThreadPoolServer.cs
lib/csharp/src/TApplicationException.cs
lib/csharp/src/Thrift.csproj
lib/csharp/src/Thrift.sln
lib/csharp/src/TProcessor.cs
lib/csharp/src/Transport/TServerSocket.cs
lib/csharp/src/Transport/TServerTransport.cs
lib/csharp/src/Transport/TSocket.cs
lib/csharp/src/Transport/TStreamTransport.cs
lib/csharp/src/Transport/TTransport.cs
lib/csharp/src/Transport/TTransportException.cs
lib/csharp/src/Transport/TTransportFactory.cs
lib/csharp/ThriftMSBuildTask/Properties/AssemblyInfo.cs
lib/csharp/ThriftMSBuildTask/ThriftBuild.cs
lib/csharp/ThriftMSBuildTask/ThriftMSBuildTask.csproj
lib/rb/lib/thrift.rb
lib/st/README
lib/st/thrift.st
test/OptionalRequiredTest.cpp
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*/
/**
* Implementation of the MD4 message digest derived from the RSA Data Security, Inc, MD4 Message-Digest
Algorithm.
*
* @author Alan Stewart
*/
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```
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```
/**
*
* @param authentication represents the user in question. Should not be null.
* @param targetDomainObject the domain object for which permissions should be checked. May be null
* in which case implementations should return false, as the null condition can be checked explicitly
* in the expression.
* @param permission a representation of the permission object as supplied by the expression system. Not null.
* @return true if the permission is granted, false otherwise
*/
```

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- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchyImpl.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/UserDetailsServiceWrapper.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/UserDetailsWrapper.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/CycleInRoleHierarchyException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/hierarchicalroles/RoleHierarchy.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutor.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/concurrent/DelegatingSecurityContextScheduledExecutorService.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/concurrent/DelegatingSecurityContextExecutorService.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/InternalAuthenticationServiceException.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/concurrent/DelegatingSecurityContextCallable.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/task/DelegatingSecurityContextAsyncTaskExecutor.java

```
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
jar/org/springframework/security/concurrent/DelegatingSecurityContextRunnable.java
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
jar/org/springframework/security/concurrent/AbstractDelegatingSecurityContextSupport.java
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
jar/org/springframework/security/scheduling/DelegatingSecurityContextSchedulingTaskExecutor.java
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
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```
*/
```

```
/**
```

```
* Reviews the Object returned from a secure object invocation,
```

```
* being able to modify the Object or throw an { @link
```

```
* AccessDeniedException }.
```

```
* <p>
```

```
* Typically used to ensure the principal is permitted to access the domain
```

```
* object instance returned by a service layer bean. Can also be used to
```

```
* mutate the domain object instance so the principal is only able to access
```

```
* authorised bean properties or Collection elements.
```

```
* <p>
```

```
* Special consideration should be given to using an
```

```
* AfterInvocationManager on bean methods that modify a database.
```

```
* Typically an AfterInvocationManager is used with read-only
```

```
* methods, such as public DomainObject getById(id). If used with
```

```
* methods that modify a database, a transaction manager should be used to
```

```
* ensure any AccessDeniedException will cause a rollback of the
```

```
* changes made by the transaction.
```

```
* </p>
```

```
*
```

```
* @author Ben Alex
```

```
*/
```

Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
```

jar/org/springframework/security/access/intercept/AfterInvocationManager.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/crypto/bcrypt/BCryptPasswordEncoder.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/parameters/DefaultSecurityParameterNameDiscoverer.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/expression/method/ExpressionBasedAnnotationAttributeFactory.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/method/P.java

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Found in path(s):

```
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
jar/org/springframework/security/access/expression/method/MethodSecurityExpressionOperations.java
```

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jar/org/springframework/security/authentication/encoding/ShaPasswordEncoder.java
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
jar/org/springframework/security/authentication/BadCredentialsException.java
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
jar/org/springframework/security/core/context/SecurityContextHolder.java
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
jar/org/springframework/security/access/intercept/RunAsUserToken.java
* /opt/ws_local/PERMITS_SQL/1069086323_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-
jar/org/springframework/security/authentication/event/AuthenticationSuccessEvent.java
```

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/userdetails/cache/NullUserCache.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/intercept/aopalliance/MethodSecurityMetadataSourceAdvisor.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/dao/ReflectionSaltSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/vote/AbstractAclVoter.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/TestingAuthenticationToken.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/userdetails/jdbc/JdbcDaoImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/userdetails/memory/UserAttributeEditor.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/event/AbstractAuthenticationFailureEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/AuthenticationException.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/userdetails/memory/UserAttribute.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/jaas/LoginExceptionResolver.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/util/MethodInvocationUtils.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/context/SecurityContext.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/AuthenticationServiceException.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/RememberMeAuthenticationProvider.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/context/GlobalSecurityContextHolderStrategy.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/DisabledException.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/AuthorizationServiceException.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/ConfigAttributeEditor.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/intercept/NullRunAsManager.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/vote/UnanimousBased.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/userdetails/memory/InMemoryDaoImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/UsernamePasswordAuthenticationToken.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/jaas/JaasGrantedAuthority.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/jaas/JaasPasswordCallbackHandler.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/intercept/aspectj/AspectJCallback.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/event/AuthorizedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/AccountExpiredException.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/session/SessionRegistry.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/event/AbstractAuthorizationEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/event/AuthenticationFailureProxyUntrustedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/event/AuthenticationCredentialsNotFoundEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/authority/GrantedAuthorityImpl.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/method/AbstractMethodSecurityMetadataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/encoding/BaseDigestPasswordEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/encoding/PlaintextPasswordEncoder.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/AuthenticationTrustResolverImpl.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/util/SimpleMethodInvocation.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/userdetails/User.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/annotation/SecuredAnnotationSecurityMetadataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/vote/AffirmativeBased.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/encoding/LdapShaPasswordEncoder.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/context/InheritableThreadLocalSecurityContextHolderStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/vote/RoleVoter.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/GrantedAuthority.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/intercept/InterceptorStatusToken.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/event/AuthorizationFailureEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/method/MethodSecurityMetadataSource.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/userdetails/UsernameNotFoundException.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/context/ThreadLocalSecurityContextHolderStrategy.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/AccessDecisionVoter.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/TestingAuthenticationProvider.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/util/InMemoryResource.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/jaas/event/JaasAuthenticationFailedEvent.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/ProviderNotFoundException.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/AccessDecisionManager.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/vote/ConsensusBased.java

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/AuthenticationManager.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/rcp/RemoteAuthenticationManagerImpl.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/dao/DaoAuthenticationProvider.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/AccessDeniedException.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/intercept/RunAsImplAuthenticationProvider.java

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/dao/AbstractUserDetailsAuthenticationProvider.java  
\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/RememberMeAuthenticationToken.java  
\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/core/Authentication.java  
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/\*\*

\* Determines if the { @link #getAuthentication() } has permission to access the target given the permission  
\* @param target the target domain object to check permission on  
\* @param permission the permission to check on the domain object (i.e. "read", "write", etc).  
\* @return true if permission is granted to the { @link #getAuthentication() }, else false  
\*/

Found in path(s):

\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/access/expression/SecurityExpressionOperations.java

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- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/crypto/keygen/BytesKeyGenerator.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/crypto/encrypt/AesBytesEncryptor.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/crypto/password/PasswordEncoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/crypto/keygen/SecureRandomBytesKeyGenerator.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/crypto/password/StandardPasswordEncoder.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/crypto/keygen/SharedKeyGenerator.java
- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/crypto/password/NoOpPasswordEncoder.java
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- \* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/crypto/encrypt/Encryptors.java
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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-jar/org/springframework/security/authentication/jaas/DefaultJaasAuthenticationProvider.java

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\* A token issued by { @link TokenService }.

\*

\* <p>

\* It is important that the keys assigned to tokens are sufficiently randomised and secured that

\* they can serve as identifying a unique user session. Implementations of { @link TokenService }

\* are free to use encryption or encoding strategies of their choice. It is strongly recommended that

\* keys are of sufficient length to balance safety against persistence cost. In relation to persistence

\* cost, it is strongly recommended that returned keys are small enough for encoding in a cookie.

\* </p>

\*

\* @author Ben Alex

\* @since 2.0.1

\*/

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\* /opt/ws\_local/PERMITS\_SQL/1069086323\_1594482988.32/0/spring-security-core-3-2-4-release-sources-1-

# 1.366 httpclient 4.4.1

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jar/org/kie/internal/runtime/Closeable.java
* /opt/cola/permits/1097547437_1602104162.05/0/kie-internal-6-5-0-final-sources-1-
jar/org/kie/internal/query/QueryFilter.java
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jar/org/kie/internal/runtime/conf/PersistenceMode.java  
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jar/org/kie/internal/runtime/Cacheable.java  
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jar/org/kie/internal/runtime/conf/MergeMode.java  
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jar/org/kie/internal/identity/IdentityProvider.java  
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jar/org/kie/internal/runtime/manager/SecurityManager.java  
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jar/org/kie/internal/runtime/conf/ObjectModel.java  
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jar/org/kie/internal/query/QueryContext.java  
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jar/org/kie/internal/runtime/conf/DeploymentDescriptorBuilder.java  
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jar/org/kie/internal/utils/KieMeta.java  
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jar/org/kie/internal/runtime/conf/NamedObjectModel.java  
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jar/org/kie/internal/runtime/conf/ObjectModelResolverProvider.java  
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jar/org/kie/internal/task/api/AuditTask.java  
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jar/org/kie/internal/runtime/manager/CacheManager.java  
\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-  
jar/org/kie/internal/runtime/conf/AuditMode.java  
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\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/io/ResourceFactoryService.java  
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\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/task/api/TaskContentService.java  
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/\*\*

\* StatefulKnowledgeSession is the most common way to interact with the engine. A StatefulKnowledgeSession

\* allows the application to establish an iterative conversation with the engine, where the state of the

\* session is kept across invocations. The reasoning process may be triggered multiple times for the

\* same set of data. After the application finishes using the session, though, it **must** call the

\* `dispose()` method in order to free the resources and used memory.

\*

\* `<p>`

\* Simple example showing a stateful session executing rules for a given collection of java objects.

\* `</p>`

\* `<pre>`

```
* KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
* kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.DRL );
* assertFalse( kbuilder.hasErrors() );
* if (kbuilder.hasErrors() ) {
*     System.out.println( kbuilder.getErrors() );
* }
* KnowledgeBase kbase = KnowledgeBaseFactory.newKnowledgeBase();
* kbase.addKnowledgePackages( kbuilder.getKnowledgePackages() );
*
* StatefulKnowledgeSession ksession = kbase.newKieSession();
* for( Object fact : facts ) {
*     ksession.insert( fact );
* }
* ksession.fireAllRules();
* ksession.dispose();
* </pre>
```

\*

\* `<p>`

\* Simple example showing a stateful session executing processes.

\* `</p>`

\* `<pre>`

```
* KnowledgeBuilder kbuilder = KnowledgeBuilderFactory.newKnowledgeBuilder();
* kbuilder.add( ResourceFactory.newFileSystemResource( fileName ), ResourceType.BPMN2 );
* KnowledgeBase kbase = kbuilder.newKnowledgeBase();
* StatefulKnowledgeSession ksession = kbase.newKieSession();
* ksession.startProcess("com.sample.processid");
* ksession.signalEvent("SomeEvent", null);
* ksession.startProcess("com.sample.processid");
* ksession.dispose();
* </pre>
```

\*

\* `<p>`

\* StatefulKnowledgeSessions support globals. Globals are used to pass information into the engine (like data or service callbacks that can be used in your rules and processes), but they should not be used to reason over. If you need to reason over your data, make sure you insert it as a fact, not a global.

\* Globals are shared among ALL your rules and processes, so be especially careful of (and avoid as much as possible) mutable globals. Also, it is a good practice to set your globals before inserting your facts or starting your processes. Rules engines evaluate rules at fact insertion time, and so, if you are using a global to constraint a fact pattern, and the global is not set, you may receive a `NullPointerException`.

\* Globals can be resolved in two ways. The StatefulKnowledgeSession supports `getGlobals()` which

\* returns the internal Globals, which itself can take a delegate. Calling of setGlobal(String, Object)

\* will set the global on an internal Collection. Identifiers in this internal

\* Collection will have priority over the externally supplied Globals delegate. If an identifier cannot be found in

\* the internal Collection, it will then check the externally supplied Globals delegate, if one has been set.

\* </p>

\* <p>Code snippet for setting a global:</p>

```
* <pre>
* StatefulKnowledgeSession ksession = kbase.newKieSession();
* ksession.setGlobal( "hbnSession", hibernateSession ); // sets a global hibernate session, that can be used for DB
interactions in the rules.
* for( Object fact : facts ) {
*   ksession.insert( fact );
* }
* ksession.fireAllRules(); // this will now execute and will be able to resolve the "hbnSession" identifier.
* ksession.dispose();
* </pre>
```

\* <p>

\* Like StatelessKnowledgeSession this also implements CommandExecutor which can be used to script a

StatefulKnowledgeSession. See CommandExecutor

\* for more details.

\* </p>

\* @see org.kie.api.runtime.Globals

\*/

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\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-  
jar/org/kie/internal/runtime/StatefulKnowledgeSession.java

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\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/jaxb/StringKeyStringValueMapXmlAdapter.java  
\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/runtime/manager/audit/query/ProcessIdQueryBuilder.java  
\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/jaxb/StringKeyStringValueEntry.java  
\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/runtime/manager/audit/query/VariableInstanceLogDeleteBuilder.java  
\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/task/query/TaskAuditQueryBuilder.java  
\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/task/api/TaskModelFactory.java  
\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/runtime/conf/ForceEagerActivationOption.java  
\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/task/query/TaskVariableQueryBuilder.java

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jar/org/kie/internal/fluent/runtime/rule/RuleFluent.java
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jar/org/kie/internal/builder/conf/RuleEngineOption.java
* /opt/cola/permits/1097547437_1602104162.05/0/kie-internal-6-5-0-final-sources-1-
jar/org/kie/internal/fluent/test/ReflectiveMatcherAssert.java
* /opt/cola/permits/1097547437_1602104162.05/0/kie-internal-6-5-0-final-sources-1-
jar/org/kie/internal/fluent/builder/KnowledgeBuilderFluent.java
* /opt/cola/permits/1097547437_1602104162.05/0/kie-internal-6-5-0-final-sources-1-
jar/org/kie/internal/simulation/Simulation.java
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jar/org/kie/internal/fluent/KnowledgeBaseFluent.java
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jar/org/kie/internal/fluent/simulation/InternalSimulation.java
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jar/org/kie/internal/fluent/test/ReflectiveMatcher.java
* /opt/cola/permits/1097547437_1602104162.05/0/kie-internal-6-5-0-final-sources-1-
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\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/task/api/TaskDeadlinesService.java  
\* /opt/cola/permits/1097547437\_1602104162.05/0/kie-internal-6-5-0-final-sources-1-jar/org/kie/internal/task/api/model/NotificationEvent.java

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jar/org/kie/internal/agent/conf/ValidationTimeoutOption.java  
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## 1.369 commons-digester 1.8.1

## 1.370 metrics 3.1.0

# 1.371 jackson-dataformat-xml 2.10.4

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The following artifacts are EPL.  
\* org.eclipse.jetty.orbit:org.eclipse.jdt.core

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\* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.

\* org.eclipse.jetty.orbit:javax.mail.glassfish

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Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.

<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

\* javax.servlet:javax.servlet-api

\* javax.annotation:javax.annotation-api

\* javax.transaction:javax.transaction-api

\* javax.websocket:javax.websocket-api

-----

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following artifacts may be included in the distribution or downloaded when ALPN module is selected.

\* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications are hosted at github and both modified and original are under GPL v2 with classpath exceptions.

<http://openjdk.java.net/legal/gplv2+ce.html>

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OW2

The following artifacts are licensed by the OW2 Foundation according to the terms of <http://asm.ow2.org/license.html>

org.ow2.asm:asm-commons

org.ow2.asm:asm

-----

Apache

The following artifacts are ASL2 licensed.

org.apache.taglibs:taglibs-standard-spec  
org.apache.taglibs:taglibs-standard-impl

-----

#### MortBay

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org.mortbay.jasper:apache-jsp  
org.apache.tomcat:tomcat-jasper  
org.apache.tomcat:tomcat-juli  
org.apache.tomcat:tomcat-jsp-api  
org.apache.tomcat:tomcat-el-api  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-api  
org.apache.tomcat:tomcat-util-scan  
org.apache.tomcat:tomcat-util

org.mortbay.jasper:apache-el  
org.apache.tomcat:tomcat-jasper-el  
org.apache.tomcat:tomcat-el-api

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<https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html>

org.eclipse.jetty.toolchain:jetty-schemas

-----

#### Assorted

The UnixCrypt.java code implements the one way cryptography used by Unix systems for simple password protection. Copyright 1996 Aki Yoshida, modified April 2001 by Iris Van den Broeke, Daniel Deville.

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## 1.373 rhino 1.7R4

## 1.373.1 Available under license :

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```
*/opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-
jar/org/mozilla/javascript/tools/debugger/treetable/AbstractCellEditor.java
```

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/*
* During the great date rewrite of 1.3, we tried to track the
* evolving ECMA standard, which then had a definition of
* getYear which always subtracted 1900. Which we
```

```
* implemented, not realizing that it was incompatible with
* the old behavior... now, rather than thrash the behavior
* yet again, we've decided to leave it with the - 1900
* behavior and point people to the getFullYear method. But
* we try to protect existing scripts that have specified a
* version...
*/
```

Found in path(s):

```
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-
jar/org/mozilla/javascript/ContextFactory.java
```

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```
/*
```

```
* TreeTableModel.java
```

```
*
```

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```

```
*/
```

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```
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-
```

jar/org/mozilla/javascript/tools/debugger/treetable/TreeTableModel.java

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```
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 * @(#)TreeTableModelAdapter.java    1.2 98/10/27
 *
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 */
```

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/**
 * This is interface defines a protocol for the reporting of
```

```
* errors during JavaScript translation in IDE-mode.
* If the { @link org.mozilla.javascript.Parser}'s error reporter is
* set to an instance of this interface, then this interface's
* { @link #warning } and { @link #error } methods are called instead
* of the { @link org.mozilla.javascript.ErrorReporter } versions. <p>
*
* These methods take a source char offset and a length. The
* rationale is that in interactive IDE-type environments, the source
* is available and the IDE will want to indicate where the error
* occurred and how much code participates in it. The start and length
* are generally chosen to fit within a single line, for readability,
* but the client is free to use the AST to determine the affected
* node(s) from the start position and change the error or warning's
* display bounds.<p>
*
* @author Steve Yegge
*/
```

Found in path(s):

```
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-
jar/org/mozilla/javascript/ast/IdeErrorReporter.java
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jar/org/mozilla/javascript/resources/Messages.properties
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-
jar/org/mozilla/javascript/tools/resources/Messages.properties
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-
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* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-
jar/org/mozilla/javascript/v8dtoa/FastDtoa.java
```

```
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-
jar/org/mozilla/javascript/v8dtoa/CachedPowers.java
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/v8dtoa/DiyFp.java
* /opt/cola/permits/1000041506_1646171446.64/0/rhino-1-7r4-sources-
jar/org/mozilla/javascript/v8dtoa/DoubleHelper.java
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// throws a special exception. This ensures execution of all pending
```

```
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*
*****/
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/\*

\* @(#)JTreeTable.java 1.2 98/10/27

\*

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- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/commonjs/module/provider/ModuleSource.java
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- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/optimizer/OptFunctionNode.java
- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/optimizer/OptTransformer.java
- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/optimizer/Optimizer.java
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- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/annotations/JSStrictFunction.java
- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/commonjs/module/provider/StrongCachingModuleScriptProvider.java
- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/optimizer/Block.java
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- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/commonjs/module/provider/URLConnectionSecurityDomainProvider.java
- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/RhinoSecurityManager.java
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- \* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/SecureCaller.java
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\* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/xmlimpl/XmlNode.java

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\* /opt/cola/permits/1000041506\_1646171446.64/0/rhino-1-7r4-sources-jar/org/mozilla/javascript/ObjArray.java

# 1.374 regexp 2.7.2

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## 1.375 spring-expression 4.3.19.RELEASE

### 1.376 quartz 2.2.1

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## 1.377 asm 4.0

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## 1.378 config 1.0.2

## 1.379 gson 2.7

## 1.380 hibernate-validator 5.1.2.Final

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